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# CATALOGUE

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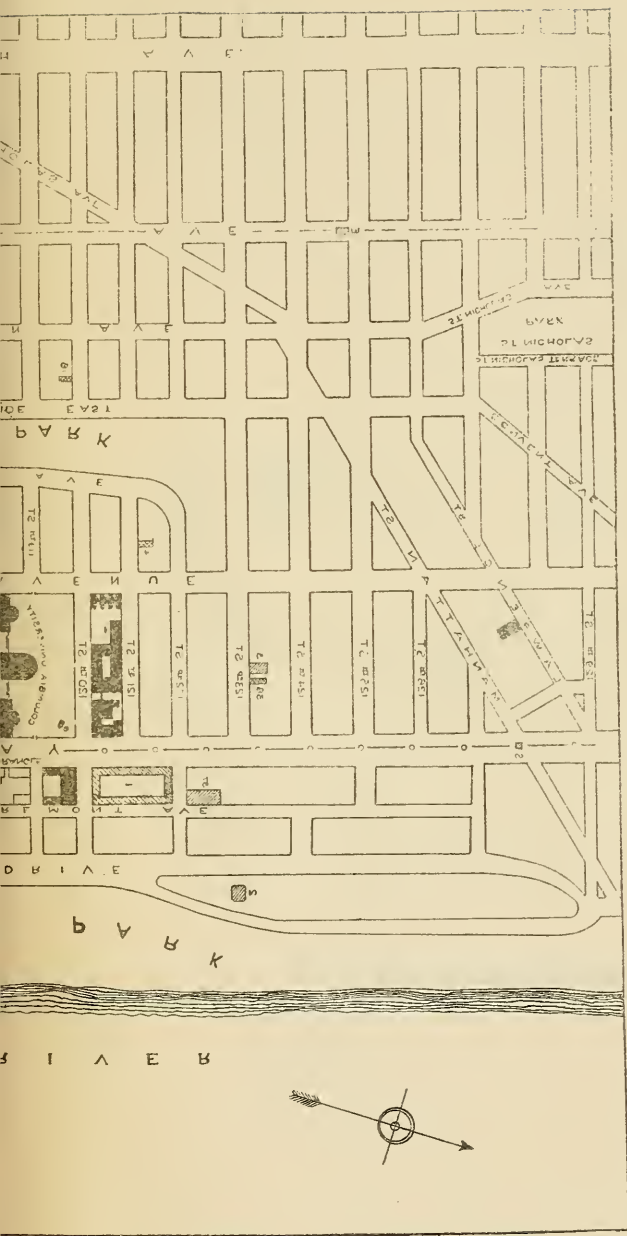
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| 13. Bpi Sigma Kappa | 30. Sigma Psi           | 38. Epsilon Psi Epsilon                        |
| 14. St. Luke's Home | 31. Psi Kappa Sigma     | 39. Alpha Sigma Psi                            |
| 15. Psi Gamma Delta | 32. Delta Upsilon       | 40. Wesleyan High School                       |
| 16. Alpha Psi Kappa | 33. Delta Kappa Epsilon | 41. General Memorial Hospital                  |
| 17. Psi Upsilon     | 34. Alpha Delta Psi     | 42. Home for the Aged and Turpin Hospital      |
| 18. Delta Psi       | 35. Delta Psi Delta     | 43. the Pool                                   |
| 19. Delta Psi       | 36. Psi Xi              | 44. Home for the Aged of the Little Sisters of |
| 20. Beta Theta Psi  | 37. Sigma Chi           | 45. Empire School No. 102                      |
| 21. Psi Sigma Delta | 38. Psi Kappa Psi       | 46. Psi Kappa Psi                              |
| 22. Psi Sigma Delta | 39. Sigma Psi           | 47. Woman's Hospital                           |
| 23. Psi Sigma Delta | 40. Psi Delta Psi       | 48. National Academy of Design                 |
| 24. Psi Sigma Delta | 41. Psi Delta Psi       | 49. Beta Psi Psi                               |
| 25. Psi Sigma Delta | 42. Psi Delta Psi       | 50. Home for Old Men and Aged Couples          |
| 26. Psi Sigma Delta | 43. Psi Delta Psi       |  |
| 27. Psi Sigma Delta | 44. Psi Delta Psi       |  |
| 28. Psi Sigma Delta | 45. Psi Delta Psi       |  |
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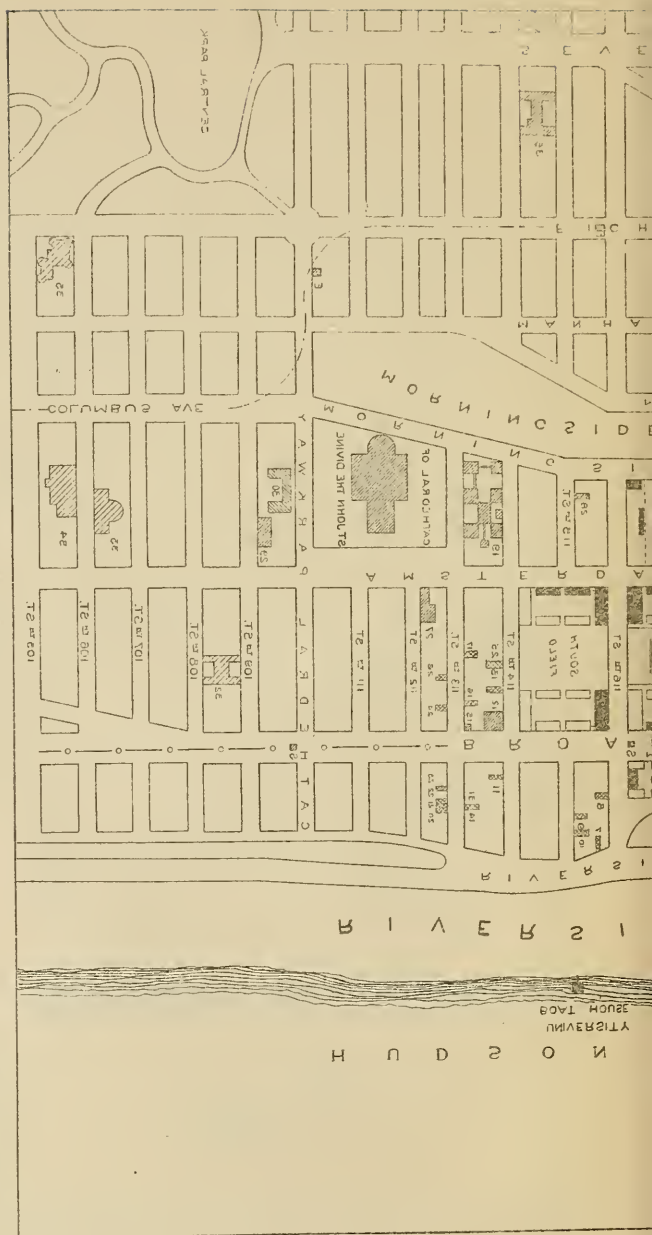
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- ▨ OTHER PUBLIC INSTITUTIONS.
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- ELEVATED RAILWAY STATIONS. ---
- ▤ STUDENTS' CLUB HOUSES.

- STUDENT, CLUB HOUSE
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Chairman of Committee on Instruction  
Professor WILSON (1913)  
Professor KEMP (1914)

#### *Faculty of Fine Arts:*

Professor HAMLIN (1914)

*Faculty of Columbia College:*

Professor CALVIN THOMAS (1913)

Professor H. G. LORD (1914)

*Faculty of Law:*

Professor BURDICK (1913)

Professor REDFIELD (1914)

*Faculty of Medicine:*

Professor Huntington (1913)

Professor STARR (1914)

*Faculty of Applied Science:*

Professor MUNROE (1913)

Professor ALEXANDER SMITH (1914)

*Faculty of Barnard College:*

Professor CRAMPTON (1915)

*Faculty of Teachers College:*

Professor LODGE (1913)

Professor E. L. THORNDIKE (1914)

*Union Theological Seminary:*

President BROWN

*General Theological Seminary:*

Dean ROBBINS

## OFFICERS OF ADMINISTRATION

---

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FREDERICK J. E. WOODBRIDGE, A.M., LL.D., Dean of the Faculties of Political Science, Philosophy, Pure Science, and Fine Arts

FREDERICK PAUL KEPPEL, A.B., Litt.D., Dean of Columbia College

FREDERICK ARTHUR GOETZE, M.Sc., Dean of the Faculty of Applied Science

HARLAN F. STONE, A.M., LL.B., Dean of the Faculty of Law

SAMUEL W. LAMBERT, M.D., Dean of the Faculty of Medicine

VIRGINIA C. GILDERSLEEVE, Ph.D., Dean of Barnard College and Adviser of Women Graduate Students

JAMES EARL RUSSELL, Ph.D., LL.D., Dean of Teachers College

HENRY H. RUSBY, M.D., Dean of the College of Pharmacy

GEORGE C. DIEKMAN, M.D., Associate Dean of the College of Pharmacy

WILLIAM H. CARPENTER, Ph.D., Provost of the University

WILLIAM T. BREWSTER, A.M., Provost of Barnard College

JAMES C. EGBERT, Ph.D., Director of the Summer Session and of Extension Teaching

TALCOTT WILLIAMS, LL.D., L.H.D., D.Litt., Director of the School of Journalism

JOHN W. CUNLIFFE, M.A., D.Lit., Associate Director of the School of Journalism

FREDERICK H. SYKES, Ph.D., Director of Practical Arts in Teachers College

ADAM LEROY JONES, Ph.D., Chairman of Committee on Undergraduate Admissions

FRANK DIEHL FACKENTHAL, A.B., Secretary of the University

KATHARINE S. DOTY, A.M., Secretary of Barnard College

CLIFFORD B. UPTON, A.M., Secretary of Teachers College

THOMAS F. MAIN, Secretary of the College of Pharmacy

- WALTER B. SIMPSON, Clerk of the College of Pharmacy  
 HELEN C. WADELTON, Recorder  
 CORNELIA P. MACY, Recorder  
 ELIZABETH H. WHEELER, Recorder of the Medical School  
 ISABELLE L. PRATT, Recorder of Teachers College  
 WILLIAM A. HERVEY, A.M., Registrar of the University  
 FRANK A. DICKEY, A.B., Assistant Registrar of the University  
 EDWARD K. HAYT, A.M., Assistant Registrar and Assistant Bursar at the Medical School  
 ANNA E. H. MEYER, A.B., Registrar of Barnard College  
 THEODORA GEORGE, Registrar of Teachers College  
 CHARLES S. DANIELSON, Bursar of the University  
<sup>2</sup> MRS. N. W. LIGGETT, A.B., Bursar of Barnard College  
 CYRUS HURLBURT POMEROY, Bursar of Teachers College  
 WILLIAM DAWSON JOHNSTON, A.M., Librarian of the University  
 FREDERICK C. HICKS, A.M., Assistant Librarian  
 J. DAVID THOMPSON, M.A., Law Librarian  
 EDWARD R. SMITH, A.B., Reference Librarian Avery Architectural Library  
 ELIZABETH G. BALDWIN, Librarian of Teachers College  
 BERTHA L. ROCKWELL, Librarian of Barnard College  
 ISADORE G. MUDGE, Reference Librarian  
 ETHEL H. BUDINGTON, Supervisor Order Department  
 HARRIET B. PRESCOTT, Supervisor Catalogue Department  
 FREDERICK ARTHUR GOETZE, M.Sc., Consulting Engineer and Comptroller of Student Organizations  
 HENRY LEE NORRIS, M.E., Superintendent of Buildings and Grounds  
 CHARLES PRENTICE BENNS, M.E., Superintendent of Buildings and Grounds in Teachers College  
 REV. RAYMOND C. KNOX, B.D., Chaplain of the University  
 GEORGE LOUIS MEYLAN, A.M., M.D., Medical Director of the Gymnasium  
 CHARLES T. MCFARLANE, Pd.D., Controller of Teachers College  
 JAMES MYERS, A.B., Secretary of Earl Hall  
 D. STUART DODGE JESSUP, M.D., University Medical Visitor  
 WILLIAM H. MCCASTLINE, M.D., Health and Sanitary Officer  
 EMMA P. SMITH, A.M., Secretary for Women Graduate Students  
 THOMAS D. WOOD, A.M., M.D., College Physician, at Teachers College

<sup>2</sup> Absent on leave first half-year.

LUCETTA DANIELL, Social Director, Teachers College

BENJAMIN R. ANDREWS, Secretary of School of Household Arts in Teachers College

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Officers of Administration, 55 (18 of whom are also teaching officers)

### Emeritus Officers

JOHN D. QUACKENBOS, A.M., M.D.....Rhetoric  
 FRANCIS DELAFIELD, M.D., LL.D.....Practice of Medicine  
 ABRAHAM JACOBI, M.D., LL.D.....Diseases of Children  
 WILLIAM R. WARE, LL.D.....Architecture  
 GEORGE M. LEFFERTS, M.D., M.Sc.....Laryngology  
 ARTHUR H. ELLIOTT, Ph.D., F.C.S.....Chemistry, College of Pharmacy  
 FREDERICK R. HUTTON, E.M., Ph.D., Sc.D...Mechanical Engineering  
 CHARLES MCBURNEY, M.D.....Surgery  
 ROBERT F. WEIR, M.D.....Surgery  
 JOHN G. CURTIS, M.D., LL.D.....Physiology  
 T. MITCHELL PRUDDEN, M.D., LL.D.....Pathology  
 JOHN HOWARD VAN AMRINGE, Ph.D., L.H.D., LL.D.....Mathematics  
 CHARLES F. CHANDLER, M.D., LL.D., Sc.D.....Chemistry  
 VIRGIL COBLENTZ, Ph.D.....Chemistry, College of Pharmacy  
 JOHN W. BURGESS, Ph.D., LL.D., Jur.D.....Political Science and  
 Constitutional Law

(15)

### Administrative Board of the Summer Session

(Term expires June 30, 1913)

Director EGBERT

Professor HERVEY

Professor PAUL MONROE

Dean KEPPEL

Dean WOODBRIDGE

(5)

### Administrative Board of Extension Teaching

(Term expires June 30, 1913)

Director EGBERT

Professor HERVEY

Professor PAUL MONROE

Dean KEPPEL

Dean WOODBRIDGE

(5)



### Administrative Board on Instruction and Research in Agriculture

Professor O. S. MORGAN, Chairman	Professor CURTIS
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Professor H. C. SHERMAN	Hon. A. S. DOWNING

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### Administrative Board of the School of Journalism

(Term expires June 30, 1915)

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Dean KEPPEL	Professor SEAGER
Director WILLIAMS	Professor SHOTWELL
Associate Director CUNLIFFE	Professor THORNDIKE (A. H.)
	Professor BEARD

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### Board of Managers of the George Crocker Special Research Fund

(Term expires June 30, 1915)

MR. RIVES	Dean LAMBERT
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(7)

### Advisory Committee on Art

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	WILLIAM RUTHERFORD MEAD, LL.D.

(3)

### University Committee on Student Organizations

Professor H. G. LORD, Chairman (1916)
Professor HAYES (1917)
Professor S. A. MITCHELL (1915)
Professor FLETCHER (1914)
Professor KEMP (1913)



## MEMBERS OF FACULTIES AND TEACHING STAFF

NICHOLAS MURRAY BUTLER.....President of the University  
A.B., Columbia, 1882; A.M., 1883; Ph.D., 1884; LL.D., Syracuse, 1898; Tulane, 1901; Johns Hopkins, Princeton, Yale, and University of Pennsylvania, 1902; Chicago, 1903; Manchester and St. Andrews, 1905; Cambridge, 1907; Williams, 1908; Harvard and Dartmouth, 1909; D. Litt., Oxford, 1905; Jur.D., Breslau, 1911; Officier de la Légion d'Honneur, 1906, Commander, 1912; Order of the Red Eagle (Prussia), Commander, 1910; Member, American Academy of Arts and Letters, 1911.

### Professors

HENRY S. MUNROE.....Professor of Mining  
E.M., Columbia, 1869; Ph.D., 1876; Sc.D., 1904.

MUNROE SMITH.....Professor of Roman Law and Comparative  
Jurisprudence  
A.B., Amherst, 1874; A.M., 1880; LL.B., Columbia, 1877; LL.D., 1904; J.U.D., Göttingen, 1880; J.D., Louvain, 1909.

FRANK J. GOODNOW...Eaton Professor of Administrative Law and  
Municipal Science  
A.B., Amherst, 1879; A.M., 1886; LL.D., 1898; LL.B., Columbia, 1882, *cum laude*; LL.D., 1904; LL.D., Harvard, 1909.

RICHARD J. H. GOTTHEIL....Professor of Rabbinical Literature and the  
Semitic Languages  
A.B., Columbia, 1881; Ph.D., Leipzig, 1886.

EDWIN R. A. SELIGMAN.....McVickar Professor of Political Economy  
A.B., Columbia, 1879; A.M., 1883; LL.B., 1884; Ph.D., 1884; LL.D., 1904.

WILLIAM HENRY CARPENTER..Villard Professor of Germanic Philology  
and Provost of the University  
A.B., Hamilton, 1881; Ph.D., Freiburg, 1881.

M. ALLEN STARR.....Professor of Neurology  
A.B., Princeton, 1876; A.M., 1879; Ph.D., 1884; LL.D., 1899; M.D., Columbia, 1880; Sc.D., 1904.

ALFRED D. F. HAMLIN.....Professor of the History of Architecture  
A.B., Amherst, 1875; A.M., 1885; L.H.D., St John's College (Md.), 1912.

ALFRED J. MOSES.....Professor of Mineralogy  
E.M., Columbia, 1882; Ph.D., 1890.

GEORGE S. HUNTINGTON.....Professor of Anatomy  
A.B., Trinity, 1881; A.M., 1884; M.D., Columbia, 1884; Sc.D., 1904; LL.D., Jefferson Medical College, 1907.

HERBERT L. OSGOOD.....Professor of History  
A.B., Amherst, 1877; A.M., 1880; LL.D., 1907; Ph.D., Columbia, 1889.

J. MCKEEN CATTELL.....Professor of Psychology  
A.B., Lafayette, 1880; A.M., 1883; LL.D., 1907; Ph.D., Leipzig, 1886; Member of National Academy of Sciences.

FRANCIS M. BURDICK.....Dwight Professor of Law  
A.B., Hamilton, 1869; LL.B., 1872; LL.D., 1895.

GEORGE W. KIRCHWEY.....Kent Professor of Law  
A.B., Yale, 1877; LL.D., Yale, University of Cincinnati, New York University, 1908.

JOHN BASSETT MOORE....Hamilton Fish Professor of International Law  
and Diplomacy  
A.B., Virginia, 1880; LL.D., Yale, 1901.

<sup>1</sup> Absent on leave 1912-13.

- HENRY FAIRFIELD OSBORN.....Research Professor of Zoölogy  
A.B., Princeton, 1877; Sc.D., 1880; LL.D., Trinity College (Hartford), 1901;  
Princeton, 1902; Columbia, 1907; Sc.D., Cambridge, 1904; Ph.D. (Hon.), Chris-  
tiana, 1911, Member of National Academy of Sciences.
- EDWARD DELAVAN PERRY.....Jay Professor of Greek  
A.B., Columbia, 1875; LL.D., 1904; A.M. and Ph.D., Tübingen, 1879.
- FRANK DEMPSTER SHERMAN.....Professor of Graphics  
Ph.B., Columbia, 1884.
- WILLIAM A. DUNNING.....Lieber Professor of History and Political  
Philosophy  
A.B., Columbia, 1881; A.M., 1883; Ph.D., 1885; LL.D., 1904.
- ABRAHAM VALENTINE WILLIAMS JACKSON....Professor of Indo-Iranian  
Languages  
A.B., Columbia, 1883; A.M., 1884; L.H.D., 1885; Ph.D., 1886; LL.D., 1904.
- ADOLPHE COHN....Professor of the Romance Languages and Literatures  
B. ès. L., Paris, 1868; LL.B., 1873; A.M., 1874; Chevalier de la Légion d'Hon-  
neur, 1900. Cavaliere della Corona d'Italia.
- EDMUND B. WILSON.....Da Costa Professor of Zoölogy  
Ph.B., Yale, 1878; LL.D., 1901; Ph.D., Johns Hopkins, 1881; LL.D., 1902;  
LL.D., Chicago, 1901; Sc.D., Cambridge, 1909; M.D. (Hon.), Leipzig, 1909;  
Member of National Academy of Sciences.
- <sup>2</sup> JAMES FURMAN KEMP.....Professor of Geology  
A.B., Amherst, 1881; Sc.D., 1906; E.M., Columbia, 1884; Member of National  
Academy of Sciences.
- ROBERT PEELE.....Professor of Mining  
E.M., Columbia, 1883.
- WILLIAM HALLOCK.....Professor of Physics  
A.B., Columbia, 1879; Ph.D., Würzburg, 1881; Phar.D., National College of  
Pharmacy, 1892.
- BRANDER MATTHEWS.....Professor of Dramatic Literature  
A.B., Columbia, 1871; LL.B., 1873; A.M., 1874; LL.D., 1904; D.C.L., Univer-  
sity of the South, 1899; Litt.D., Yale, 1901; LL.D., Miami, 1909; Chevalier  
de la Légion d'Honneur, 1907; Member American Academy of Arts and Letters.
- <sup>1</sup> FRANCIS B. CROCKER.....Professor of Electrical Engineering  
E.M., Columbia, 1882; Ph.D., 1895.
- MICHAEL IDVORSKY PUPIN.....Professor of Electro-Mechanics and  
Director of Phoenix Research Laboratories  
A.B., Columbia, 1883; Sc.D., 1904; Ph.D., Berlin, 1889; Member of National  
Academy of Sciences.
- WILLIAM H. BURR.....Professor of Civil Engineering  
C.E., Rensselaer Polytechnic, 1872.
- HENRY ALFRED TODD.....Professor of Romance Philology  
A.B., Princeton, 1876; Ph.D., Johns Hopkins, 1885.
- FRANKLIN HENRY GIDDINGS.....Professor of Sociology and the History  
of Civilization  
A.B., Union, 1877; A.M., 1889; Ph.D., 1897; LL.D., Oberlin, 1900.
- GEORGE F. CANFIELD.....Professor of Law  
A.B., Harvard, 1875; LL.B., 1880.
- THOMAS SCOTT FISKE.....Professor of Mathematics  
A.B., Columbia, 1885; A.M., 1886; Ph.D., 1888.
- HAROLD JACOBY.....Rutherford Professor of Astronomy  
A.B., Columbia, 1885; Ph.D., 1895.
- <sup>1</sup> JOHN B. CLARK.....Professor of Political Economy  
A.B., Amherst, 1872; Ph.D., 1890; LL.D., 1897; LL.D., Princeton, 1896; Chris-  
tiana, 1911.
- JAMES RIGNALL WHEELER..Professor of Greek Archaeology and Art  
A.B., Vermont, 1880; LL.D., 1909; Ph.D., Harvard, 1885.

<sup>1</sup> Absent on leave 1912-13.<sup>2</sup> Absent on leave first half-year.

- FRANK N. COLE.....Professor of Mathematics  
A.B., Harvard, 1882; A.M., and Ph.D., 1886.
- JAMES HARVEY ROBINSON.....Professor of History  
A.B., Harvard, 1887; A.M., 1888; Ph.D., Freiburg, 1890.
- FREDERIC S. LEE.....Dalton Professor of Physiology  
A.B., St. Lawrence, 1878; A.M., 1881; Ph.D., Johns Hopkins, 1885.
- JAMES CHIDESTER EGBERT.....Professor of Latin  
A.B., Columbia, 1881; A.M., 1882; Ph.D., 1884.
- CALVIN THOMAS..Gebhard Professor of the Germanic Languages and  
Literatures  
A.B., Michigan, 1874; A.M., 1877; LL.D., 1904.
- EDWIN B. CRAGIN.....Professor of Obstetrics and Gynecology  
A.B., Yale, 1882; A.M. (Hon.), 1907; M.D., Columbia, 1886.
- <sup>1</sup> BASHFORD DEAN.....Professor of Vertebrate Zoölogy  
A.B., College of the City of New York, 1886; A.M., Columbia, 1889; Ph.D., 1890.  
Chevalier de la Légion d'Honneur, 1910.
- <sup>1</sup> WILLIAM MILLIGAN SLOANE.....Seth Low Professor of History and  
Theodore Roosevelt Professor of American History and Institu-  
tions in the University of Berlin for the year 1912-13  
A.B., Columbia, 1868; L.H.D., 1887; A.M. and Ph.D., Leipzig, 1876; LL.D.,  
Rutgers, 1898; Princeton, 1903; Union, 1912; Chevalier de la Légion d'Honneur,  
1910; Member American Academy of Arts and Letters.
- HENRY MARION HOWE.....Professor of Metallurgy  
B.S., Harvard, 1869; A.M., 1872; LL.D., 1905; B.S., Mass Inst. of Tech.,  
1871; LL.D., Lehigh, 1905.
- EARL B. LOVELL.....Professor of Civil Engineering  
C.E., Cornell, 1891.
- FRANZ BOAS.....Professor of Anthropology  
Ph.D., Kiel, 1881; LL.D., Clark, 1909; Sc.D., Oxford, 1912; Member of National  
Academy of Sciences.
- JOHN FRANCIS WOODHULL....Professor of Physical Science in Teachers  
College  
A.B., Yale, 1880; Ph.D., Columbia, 1899.
- FRANKLIN THOMAS BAKER....Professor of the English Language and  
Literature in Teachers College  
A.B., Dickinson, 1885; A.M., 1889; Litt.D., 1908; A.M., Columbia, 1900.
- RICHARD ELWOOD DODGE....Professor of Geography in Teachers College  
A.B., Harvard, 1890; A.M., 1894.
- VIRGIL PRETTYMAN.....Principal of Horace Mann High School with  
rank of Assistant Professor in Teachers College  
A.B., Dickinson, 1892; A.M., 1895; Pd.D., 1905.
- JAMES EARL RUSSELL.....Barnard Professor of Education  
A.B., Cornell, 1887; Ph.D., Leipzig, 1894; LL.D., Dickinson, 1903; LL.D.,  
McGill, 1909.
- HELEN KINNE.....Professor of Domestic Science in Teachers College  
Diploma, Teachers College, 1890.
- FRANK M. MCMURRY.....Professor of Elementary Education in Teachers  
College  
Ph.D., Jena, 1889.
- <sup>3</sup> PAUL MONROE....Professor of the History of Education in Teachers  
College  
B.S., Franklin, 1890; M.S., 1895; Ph.D., Chicago. 1897.
- SAMUEL TRAIN DUTTON.....Professor of School Administration in  
Teachers College  
A.B., Yale, 1873; A.M., 1900; LL.D., Baylor, 1912.

<sup>1</sup> Absent on leave 1912-13.<sup>3</sup> Absent on leave second half-year.

- WILLIAM P. TRENT.....Professor of English Literature  
M.A., Virginia, 1884; LL.D., Wake Forest, 1899; D.C.L., University of the South, 1905.
- HERBERT G. LORD.....Professor of Philosophy  
A.B., Amherst, 1871; A.M., 1900.
- NELSON GLENN MCCREA.....Anthon Professor of the Latin Language  
and Literature  
A.B., Columbia, 1885; A.M., 1886; Ph.D., 1888.
- GONZALEZ LODGE..Professor of Latin and Greek in Teachers College  
A.B., Johns Hopkins, 1883; Ph.D., 1886; LL.D., Franklin and Marshall, 1901.
- CLARENCE H. YOUNG.....Professor of Greek  
A.B., Columbia, 1888; A.M., 1889; Ph.D., 1891.
- LIVINGSTON FARRAND.....Professor of Anthropology  
A.B., Princeton, 1888; A.M., 1891; M.D., Columbia, 1891.
- JAMES MACLAY.....Professor of Mathematics  
C.E., Columbia, 1888; Ph.D., 1899.
- <sup>2</sup>MARSTON TAYLOR BOGERT.....Professor of Organic Chemistry  
A.B., Columbia, 1880; Ph.B., 1894; LL.D., Clark, 1909.
- J. LIVINGSTON RUTGERS MORGAN.....Professor of Physical Chemistry  
B.S., Rutgers, 1892; A.M. and Ph.D., Leipzig, 1895.
- HENRY E. CRAMPTON.....Professor of Zoölogy  
A.B., Columbia, 1893; Ph.D., 1899.
- <sup>2</sup>EDWARD LEE THORNDIKE...Professor of Educational Psychology in  
Teachers College  
A.B., Wesleyan, 1895; A.B., Harvard, 1896; A.M., 1897; Ph.D., Columbia, 1898.
- CHARLES HUBERT FARNSWORTH...Associate Professor of School Music  
in Teachers College
- HENRY S. REDFIELD.....Nash Professor of Law  
A.B., Amherst, 1877; A.M., 1887; LL.D., 1901.
- DAVID EUGENE SMITH...Professor of Mathematics in Teachers College  
Ph.B., Syracuse, 1881; Ph.M., 1884; Ph.D., 1887; LL.D., 1905; M.Pd., Michigan State Normal, 1898.
- THOMAS DENISON WOOD.....Professor of Physical Education  
A.B., Oberlin, 1888; A.M., 1891; M.D., Columbia, 1891.
- CHARLES THADDEUS TERRY.....Professor of Law  
A.B., Williams, 1889; LL.B., Columbia, 1893.
- WALTER B. JAMES.....Professor of Clinical Medicine  
A.B., Yale, 1879; M.D., Columbia, 1883; LL.D., 1904; A.M. (Hon.), Yale, 1906.
- WILLIAM J. GIES.....Professor of Biological Chemistry  
B.S., Pennsylvania College, 1893; M.S., 1896; Ph.B., Yale, 1894; Ph.D., 1897.
- WILLIAM T. BREWSTER.....Professor of English  
A.B., Harvard, 1892; A.M., 1893.
- GEORGE CLINTON DENSMORE ODELL.....Professor of English  
A.B., Columbia, 1889; A.M., 1890; Ph.D., 1893.
- CHARLES KNAPP.....Professor of Classical Philology  
A.B., Columbia, 1887; A.M., 1888; Ph.D., 1890.
- L. EMMETT HOLT...Carpentier Professor of the Diseases of Children  
A.B., Rochester, 1875; A.M., 1878; M.D., Columbia, 1880; Sc.D., 1904.
- AMADEUS W. GRABAU.....Professor of Palaeontology  
S.B., Mass. Inst. of Tech., 1896; S.M., Harvard, 1898; S.D., 1900.
- HENRY ROGERS SEAGER.....Professor of Political Economy  
Ph.B., Michigan, 1890; Ph.D., Pennsylvania, 1894.

<sup>2</sup> Absent on leave first half-year.<sup>3</sup> Absent on leave second half-year.



- HENRY L. MOORE.....Professor of Political Economy  
A.B., Randolph-Macon, 1892; Ph.D., Johns Hopkins, 1896.
- <sup>8</sup> JOHN DYNELEY PRINCE.....Professor of Semitic Languages  
A.B., Columbia, 1888; Ph.D., Johns Hopkins, 1892.
- FREDERICK JAMES EUGENE WOODBRIDGE.....Johnsonian Professor of  
Philosophy  
A.B., Amherst, 1889; A.M., 1898; LL.D., 1903.
- FRIEDRICH HIRTH.....Dean Lung Professor of Chinese  
A.M. and Ph.D., Rostock, 1869.
- <sup>8</sup> FELIX ADLER.....Professor of Social and Political Ethics  
A.B., Columbia, 1870; Ph.D., Heidelberg, 1873.
- JULIUS SACHS....Professor of Secondary Education in Teachers College  
A.B., Columbia, 1867; A.M., 1871; Ph.D., Rostock, 1871.
- The Very Reverend WILFORD L. ROBBINS, D.D..Dean of the General  
Theological Seminary  
A.B., Amherst, 1881; A.M., 1884; B.D., Episcopal Theol. School, 1887; D.D.,  
St. Stephen's, 1891; Amherst, 1903; Princeton, 1908; LL.D., Hobart, 1905.
- RALPH EDWARD MAYER..Associate Professor of Engineering Draughting  
C.E., Columbia, 1879.
- HERBERT MAULE RICHARDS.....Professor of Botany  
B.S., Harvard, 1891, Sc.D., 1895.
- GARY N. CALKINS.....Professor of Protozoölogy  
B.S., Mass. Inst. of Tech., 1890; Ph.D., Columbia, 1898.
- PHILIP HANSON HISS, Jr.....Professor of Bacteriology  
A.B., Johns Hopkins, 1891; M.D., Columbia, 1895.
- MARGARET E. MALTBY..Assistant Professor of Physics in Barnard College  
A.B., Oberlin, 1882; A.M., 1891; B.S., Mass. Inst. of Tech. 1891; Ph.D.,  
Göttingen, 1895.
- CASSIUS JACKSON KEYSER.....Adrain Professor of Mathematics  
B.S., Missouri, 1892; A.M., Columbia, 1896; Ph.D., 1901.
- <sup>1</sup> CHARLES AUGUSTUS STRONG.....Professor of Psychology  
A.B., Rochester, 1884; A.B., Harvard, 1885.
- MARSHALL H. SAVILLE....Loubat Professor of American Archaeology
- GEORGE L. MEYLAN....Associate Professor of Physical Education and  
Medical Director of the Gymnasium  
M.D., New York University, 1896; B.S., Harvard, 1902; A.M., Columbia, 1904.
- ELIJAH WILLIAM BAGSTER-COLLINS..Associate Professor of German in  
Teachers College  
A.B., Brown, 1897; A.M., Columbia, 1898.
- MAURICE A. BIGELOW.....Professor of Biology in Teachers College  
B.S., Ohio Wesleyan, 1894; M.S., Northwestern, 1896; Ph.D., Harvard, 1901.
- FREDERICK H. SYKES.....Director of Practical Arts and Professor  
in Teachers College  
A.B., Toronto, 1885; A.M., 1886; Ph.D., Johns Hopkins, 1894.
- HENRY CARR PEARSON.....Principal of Horace Mann Elementary  
School with rank of Assistant  
Professor in Teachers College  
A.B., Harvard, 1892.
- JOSEPH A. BLAKE.....Professor of Surgery  
A.B., Yale, 1885; Ph.B., 1886; M.A. (Hon.), 1909; M.D., Columbia, 1889.
- SAMUEL W. LAMBERT.....Professor of Applied Therapeutics  
A.B., Yale, 1880; Ph.B., 1882; M.A. (Hon.), 1905; M.D., Columbia, 1885.
- GEORGE E. BREWER.....Professor of Clinical Surgery  
A.B., Hamilton, 1881; A.M., 1882; M.D., Buffalo, 1884; M.D., Harvard, 1885

<sup>1</sup> Absent on leave 1912-13.<sup>8</sup> Absent on leave second half-year.

- VIRGIL P. GIBNEY.....Professor of Orthopaedic Surgery  
A.B., Kentucky, 1869; A.M., 1872; LL.D., 1899; M.D., Bellevue, 1871.
- WILLIAM K. SIMPSON.....Professor of Laryngology  
M.D., Columbia, 1880.
- ARNOLD H. KNAPP.....Professor of Ophthalmology  
A.B., Harvard, 1889; M.D., Columbia, 1892.
- GORHAM BACON.....Professor of Otology  
A.B., Harvard, 1875; M.D., Bellevue, 1878.
- JAMES R. HAYDEN.....Professor of Genito-Urinary Diseases  
M.D., Columbia, 1884.
- HERMANN T. VULTÉ.....Assistant Professor of Domestic Science in  
Teachers College  
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- FRANCIS CARTER WOOD.....Director of Cancer Research  
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- THOMAS HUNT MORGAN.....Professor of Experimental Zoölogy  
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- <sup>1</sup> GEORGE STUART FULLERTON.....Professor of Philosophy  
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- JEFFERSON B. FLETCHER.....Professor of Comparative Literature  
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- HARRY MCMAHON PAINTER.....Professor of Clinical Obstetrics  
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- CORNELIUS RÜBNER.....Professor of Music  
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- BERN B. GALLAUDET.....Assistant Professor of Anatomy  
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A.B., Dartmouth, 1870; A.M., 1873; Ph.D., Hamilton, 1884; D.D., Dartmouth,  
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- DAVID BOVAIRD, Jr. . . . . Assistant Professor of Clinical Medicine  
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- REGINALD J. S. PIGOTT.....Assistant Professor of Steam Engineering  
Mech.E., Columbia, 1906.
- ROMIETT STEVENS....Assistant Professor of Secondary Education in  
Teachers College  
B.S., Columbia, 1907; A.M., 1908; Ph.D., 1912.
- WILLIAM H. WOGLÖM... Assistant Professor engaged in Cancer Research  
M.D., Columbia, 1901.
- HENRI BERGSON, Litt.D.....Visiting French Professor, 1912-13  
Professor of Philosophy in the College of France.
- FELIX KRUEGER, Ph.D., Litt.D...Kaiser Wilhelm Professor of German  
History and Institutions for the  
year 1912-13  
Professor of Psychology in the University of Halle-Wittenberg.
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#### Special Lecturers for 1912-13

- HAROLD D. HAZELTINE, J.U.D....Lecturer on the History of English Law  
Fellow and Law Lecturer of Emmanuel College, Cambridge University.
- JOHN SHARP WILLIAMS.....Lecturer on the Blumenthal Foundation  
United States Senator from Mississippi.
- (2)

#### Clinical Professors

- FRANCIS P. KINNICUTT.....Professor of Clinical Medicine  
A.B., Harvard, 1868; A.M., 1872; M.D., Columbia, 1871.
- FRANK HARTLEY.....Professor of Clinical Surgery  
A.B., Princeton, 1877; LL.D., 1909; M.D., Columbia, 1880.
- JOHN S. THACHER.....Professor of Clinical Medicine  
A.B., Yale, 1877; M.D., Columbia, 1880.
- WALTER F. CHAPPELL.....Professor of Clinical Laryngology  
M.D., Toronto, 1879.
- PORTER F. CHAMBERS.....Professor of Clinical Gynecology  
A.B., Emory, 1873; M.D., Bellevue Hospital Medical College, 1876.
- FRANCIS HUBER.....Professor of Clinical Medicine  
B.S., College of the City of New York, 1873; M.D., College of Physicians and  
Surgeons, 1877.

- ALEXANDER B. JOHNSON.....Professor of Clinical Surgery  
Ph.B., Yale, 1882; M.D., Columbia, 1885.
- ROBERT LEWIS, Jr.....Professor of Clinical Otology  
M.D., Columbia, 1885.
- OTTO G. T. KILIANI.....Professor of Clinical Surgery  
M.D., Halle, 1888.
- JACOB KAUFMANN.....Professor of Clinical Medicine  
M.D., Strassburg, 1885.
- RUDOLF C. DENIG.....Professor of Clinical Ophthalmology  
M.D., Würzburg, 1891.
- NATHAN E. BRILL.....Professor of Clinical Medicine  
A.B., College of the City of New York, 1877; A.M., 1883; M.D., New York University, 1880.
- ARPAD G. GERSTER.....Professor of Clinical Surgery  
M.D., Vienna, 1872.
- FREDERICK KAMMERER.....Professor of Clinical Surgery  
M.D., Freiburg, 1880.
- EMANUEL LIBMAN.....Professor of Clinical Medicine  
A.B., College of the City of New York, 1891; M.D., Columbia, 1894.
- NORBERT STADTMÜLLER.....Professor of Clinical Medicine  
M.D., Munich, 1889.

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## Associates

- ROBERT ABBE.....Associate in Clinical Surgery  
A.B., College of the City of New York, 1870; M.D., Columbia, 1874.
- FRANK R. OASTLER.....Chief of Clinic and Associate in Gynecology  
A.B., Yale, 1891; M.D., Columbia, 1894.
- LINNAEUS EDWARD LA FETRA.....Associate in Diseases of Children  
A.B., Wesleyan, 1891; M.D., Columbia, 1894.
- WALTER A. BASTEDO.....Associate in Pharmacology and Therapeutics  
Ph.G., New York College of Pharmacy, 1894; M.D., Columbia, 1899.
- WILLIAM C. CLARK.....Associate in Surgery  
M.D., Columbia, 1899.
- HENRY S. PATTERSON.....Associate in Applied Therapeutics  
A.B., Williams, 1896; M.D., Columbia, 1900.
- NELLIS B. FOSTER.....Associate in Biological Chemistry  
M.D., Johns Hopkins, 1902.
- LINSLEY RUDD WILLIAMS.....Associate in Clinical Medicine  
A.B., Princeton, 1895; M.D., A.M., Columbia, 1899.
- GEORGE J. BAYLES.....Associate in Ecclesiology  
A.B., Columbia, 1891; A.M., 1892; LL.B., 1893; Ph.D., 1895.
- FELLOWES DAVIS, Jr.....Associate in Clinical Obstetrics  
M.D., Columbia, 1899.
- GEORGE MONTAGUE SWIFT.....Associate in Clinical Medicine  
A.B., Amherst, 1876; A.M., 1879; M.D., Columbia, 1879.
- T. STUART HART.....Associate in Clinical Medicine  
A.B., Yale, 1891; A.M., 1893; M.D., Columbia, 1895.
- LEWIS F. FRISSELL.....Associate in Medicine  
A.B., Yale, 1895; A.M., 1897; M.D., Columbia, 1900.
- ALWIN M. PAPPENHEIMER.....Associate in Pathology  
A.B., Harvard, 1898; M.D., Columbia, 1902.
- FREDERICK TILNEY.....Associate in Anatomy  
A.B., Yale, 1897; M.D., Long Island College Hospital, 1903; Ph.D., Columbia, 1912.

- JOHN V. VAN PELT.....Associate in Architecture  
Architecte Diplômé par le Gouvernement, École des Beaux-Arts, Paris.
- AUSTIN W. HOLLIS.....Associate in Clinical Medicine  
M.D., Columbia, 1890.
- FRANK E. WARD.....Associate in Music
- ISAAC LEVIN.....Associate in Pathology  
M.D., St. Petersburg, 1890.
- EDWARD W. SCRIPTURE.....Associate in Psychiatry  
Ph.D., Leipzig, 1891; M.D., Munich, 1906.
- MABEL F. WEEKS.....Associate in English in Barnard College  
A.B., Radcliffe, 1894.
- WALTON MARTIN.....Associate in Surgery  
Ph.B., Yale, 1889; M.D., Columbia, 1892.
- ALBERT E. SUMNER.....Associate in Clinical Medicine  
A.B., Amherst, 1889; M.D., Columbia, 1894; A.M., 1903.
- HENRY W. BERG.....Associate in Diseases of Children  
A.B., College of the City of New York, 1878; M.D., Columbia, 1881.
- HERBERT S. CARTER.....Associate in Clinical Medicine  
A.B., Princeton, 1892; A.M., 1895; M.D., Columbia, 1895.
- T. LESLIE SHEAR.....Associate in Classical Philology  
A.B., New York University, 1900; A.M., 1903; Ph.D., Johns Hopkins, 1904.
- CHARLES CHRISTIAN LIEB... Associate in Pharmacology and Therapeutics  
A.B., Columbia, 1902; M.D., 1906.
- GOLDTHWAITE H. DORR.....Associate in Law  
A.B., Harvard, 1897; LL.B., Columbia, 1904.
- WALTER H. EDDY.....Associate in Biological Chemistry  
B.S., Amherst, 1898; A.M., Columbia, 1908; Ph.D., 1909.
- WALTER BENSEL.....Associate in Hygiene and Preventive Medicine  
M.D., Columbia, 1890.
- ALBERT A. BERG.....Associate in Clinical Surgery  
A.B., College of the City of New York, 1891; M.D., Columbia, 1894.
- JACKSON E. REYNOLDS.....Associate in Law  
A.B., Stanford, 1896; LL.B., Columbia, 1899.
- MAURICE PRÉVÔT.....Associate in Architecture  
Diplômé Ecole des Beaux-Arts, 1900.
- WILBUR WARD.....Associate in Gynecology  
A.B., Williams, 1900; M.D., Columbia, 1904.
- HAVEN EMERSON.....Associate in Physiology and in Medicine  
A.B., Harvard, 1896; A.M. and M.D., Columbia, 1899.
- GEORGE A. TUTTLE.....Associate in Clinical Medicine  
A.B., Amherst, 1883; M.D., Columbia, 1886.
- HORATIO B. WILLIAMS.....Associate in Physiology  
A.B., Syracuse, 1900; M.D., 1905.
- ALFRED P. LOTHROP.....Associate in Biological Chemistry  
A.B., Oberlin, 1906; A.M., 1907; Ph.D., Columbia, 1909.
- ROBERT A. LAMBERT.....Associate in Pathology  
M.D., Tulane, 1907.
- MENAS S. GREGORY.....Chief of Clinic and Associate in Psychiatry  
M.D., Albany Medical College, 1898.
- WILLIAM K. GREGORY.....Associate in Zoology  
A.B., Columbia, 1900; A.M., 1905; Ph.D., 1910.
- THOMAS R. POWELL.....Associate in Law  
A.B., Vermont, 1900; LL.B., Harvard, 1904.
- EDWIN E. SLOSSON.....Associate in Journalism  
B.S., Kansas, 1890; M.S., 1892; Ph.D., Chicago, 1902.



- ARTHUR WARE.....Associate in Architecture  
B.S., Columbia, 1898; Diplômé École des Beaux-Arts, 1902.
- FRANKLIN MATTHEWS.....Associate in Journalism  
A.B., Cornell, 1883.
- HERMAN O. MOSENTHAL, M.D.....Associate in Biological Chemistry and  
Instructor in Medicine  
A.B., Columbia, 1899; M.D., 1903.

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## Instructors

*Note.*—For the Instructors and other Officers not of Professorial Grade in Teachers College, in the College of Pharmacy, and those of the Summer Session and Extension Teaching, see the Table of Contents.

- RICHARD FROTHINGHAM, M.D.....Instructor in Laryngology
- ARTHUR M. SHRADY, M.D.....Chief of Clinic and Instructor in Hydro-  
therapy
- CHARLES C. TROWBRIDGE, Sc.D.....Instructor in Physics
- WARD A. HOLDEN, M.D....Chief of Clinic and Instructor in Ophthalmology
- HENRY H. TYSON, M.D.....Instructor in Ophthalmology
- CLARENCE A. MCWILLIAMS, M.D.....Instructor in Clinical Surgery
- ADAM M. MILLER, A.M.....Instructor in Anatomy
- EUGENE HILLHOUSE POOL, M.D.....Instructor in Clinical Surgery
- OLIVER S. STRONG, Ph.D.....Instructor in Anatomy
- CHARLES I. PROBEN, M.D.....Instructor in Gynecology
- GEORGE H. RYDER, M.D.....Instructor in Gynecology
- SAMUEL W. THURBER, M.D.....Chief of Clinic and Instructor in  
Laryngology
- PERCY R. TURNURE, M.D.....Instructor in Clinical Surgery
- EDWARD L. HUNT, M.D.....Instructor in Neurology
- ROWLAND COX, M.D.....Instructor in Surgery
- JAMES H. KENYON, M.D.....Instructor in Surgery
- CHARLES H. JAEGER, M.D....Chief of Clinic and Instructor in Orthopaedic  
Surgery
- HOWARD D. COLLINS, M.D.....Instructor in Clinical Surgery
- T. LAURANCE SAUNDERS, M.D....Chief of Clinic and Instructor in Otology
- JOHN H. P. HODGSON, M.D.....Chief of Clinic and Instructor in  
Dermatology
- D. STUART DODGE JESSUP, M.D.....Instructor in Clinical Pathology
- JAMES I. RUSSELL, M.D.....Instructor in Clinical Surgery
- EDWARD KNIGHT JUDD, A.B., E.M.....Instructor in Mining
- ARTHUR S. VOSBURGH, M.D.....Instructor in Surgery
- PERCY HERBERT WILLIAMS, M.D.....Instructor in Gynecology
- KARL A. CONNELL, M.D.....Instructor in Surgery
- HUGH B. BLACKWELL, M.D.....Instructor in Clinical Otology
- WILLIAM DARRACH, M.D.....Instructor in Clinical Surgery
- HENRI F. MULLER, B. és L..Instructor in the Romance Languages and  
Literatures

LEIGHTON B. MORSE, Ph.D.....	Instructor in Physics
HUGH AUCHINCLOSS, M.D.....	Instructor in Surgery
FREDERICK H. BARTLETT, M.D.....	Instructor in Diseases of Children
RALPH W. LOBENSTINE, M.D.....	Instructor in Clinical Gynecology
HAROLD WORTHINGTON WEBB, Ph.D.....	Instructor in Physics
HERMANN FISCHER, M.D.....	Instructor in Clinical Surgery
DE WITT STETTEN, M.D.....	Instructor in Clinical Surgery
OTTO M. SCHWERDTFEGER, M.D.....	Instructor in Clinical Medicine
J. VICTOR HABERMAN, M.D.....	Instructor in Neurology and in Applied Therapeutics
ARTHUR COLON NEISH, Ph.D.....	Instructor in Chemistry
ROSCOE GUERNSEY, Ph.D.....	Instructor in Classical Philology
ELEANOR KELLER, A.M.....	Instructor in Chemistry in Barnard College
HAROLD C. BROWN, Ph.D.....	Instructor in Philosophy
PAULINE HAMILTON DEDERER, A.M....	Instructor in Zoölogy in Barnard College
ALEXANDER O. BECHERT, A.M....	Instructor in the Germanic Languages and Literatures
MARION E. LATHAM, A.M.....	Instructor in Botany in Barnard College
OTTO KRESS, Ph.D.....	Instructor in Engineering Chemistry
ALLEN W. PORTERFIELD, Ph.D.....	Instructor in the Germanic Languages and Literatures
EDGAR H. STURTEVANT, Ph.D.....	Instructor in Classical Philology
DINO BIGONGIARI, A.B....	Instructor in the Romance Languages and Literatures
MAUDE A. HUTTMANN, A.M....	Instructor in History in Barnard College
CHESTER A. DARLING, Ph.D.....	Instructor in Botany
GRACE LANGFORD, S.B.....	Instructor in Physics in Barnard College
WILLIAM F. COOLEY, Ph.D.....	Instructor in Philosophy
HARRISON R. STEEVES, A.M.....	Instructor in English
JOHN MAURICE NELSON, Ph.D.....	Instructor in Organic Chemistry
HERMON W. FARWELL, A.M.....	Instructor in Physics
HARRY L. HOLLINGWORTH, Ph.D.....	Instructor in Psychology
HARRY WILFRED REDDICK, Ph.D.....	Instructor in Mathematics
EDWARD D. THURSTON, Jr., A.B., Mech.E.....	Instructor in Mechanical Engineering
LOUISE HOYT GREGORY, Ph.D..	Instructor in Zoölogy in Barnard College
FREDERICK W. HEHRE, E.E.....	Instructor in Electrical Engineering
WILLIAM CABLER MOORE, Ph.D.....	Instructor in Chemistry
HENRY H. L. SCHULZE, A.M....	Instructor in the Germanic Languages and Literatures
MRS. JULIANA S. HASKELL, Ph.D....	Instructor in the Germanic Languages and Literatures in Barnard College

OTTO HENSEL, M.D.....	Instructor in Clinical Medicine
FREDERICK T. VAN BEUREN, Jr., M.D....	Chief of Clinic and Instructor in Surgery
LEANDER H. SHEARER, M.D....	Instructor in Clinical Medicine and in Physiology
JAMES S. MACGREGOR, M.S.....	Instructor in Civil Engineering
ISAAC O. WOODRUFF, M.D.....	Instructor in Clinical Medicine
HOWARD H. MASON, M.D....	Chief of Clinic and Instructor in Medicine
WILLIAM W. HERRICK, M.D....	Chief of Clinic and Instructor in Medicine
MAX SCHULMAN, M.D.....	Chief of Clinic and Instructor in Applied Therapeutics
FREDERICK B. HUMPHREYS, M.D.....	Instructor in Pathology
HENRY E. HALE, Jr., M.D.....	Chief of Clinic and Instructor in Applied Therapeutics
F. MORRIS CLASS, M.D.....	Instructor in Applied Therapeutics
HAROLD B. CURTIS, Ph.D.....	Instructor in Mathematics
FRANKLIN C. FETTE, A.M.....	Instructor in Physical Education
JAMES KIP FINCH, C.E., A.M.....	Instructor in Civil Engineering
EDWARD J. FORTIER, A.B.....	Instructor in the Romance Languages and Literatures
ARTHUR LOWELL HERRICK, B.S., C.E.....	Instructor in Mechanical Engineering
NELS J. LENNES, Ph.D.....	Instructor in Mathematics
CHARLES W. MCMURTRY, M.D.....	Instructor in Dermatology
ALFRED MICHAELIS, M.D.....	Instructor in Otology
ERNEST H. WRIGHT, Ph.D.....	Instructor in English
DUDLEY S. CONLEY, M.D.....	Instructor in Clinical Surgery
MATTHEW L. CARR, M.D.....	Instructor in Otology
JAMES G. DWYER, M.D.....	Instructor in Bacteriology
ALLEN O. WHIPPLE, M.D.....	Instructor in Clinical Surgery
CARL VAN DOREN, Ph.D.....	Instructor in English
ARTHUR W. BINGHAM, M.D....	Instructor in Physiology and Assistant in Diseases of Children
WILLIAM K. TERRIBERRY, M.D.....	Instructor in Physiology
MORRIS F. WEINRICH, Ph.D.....	Instructor in Physics
WILLARD L. SEVERINGHAUS, A.M.....	Instructor in Physics
WILLIAM HALLER, A.M.....	Instructor in English
BURTON W. KENDALL, S.B.....	Instructor in Experimental Physics
FRANK L. MASON, E.E.....	Instructor in Electrical Engineering
CHARLES HERRMAN, M.D....	Chief of Clinic and Instructor in Diseases of Children
JESSE E. BEANS.....	Instructor in Drawing
BENJAMIN M. ANDERSON, Jr., Ph.D.....	Instructor in Economics

<sup>1</sup> Absent on leave 1912-13.

DANIEL ROE AYRES, M.D.....	Instructor in Gynecology
RUSSELL L. CECIL, M.D.....	Instructor in Clinical Medicine
GERHARD H. COCKS, M.D.....	Instructor in Clinical Laryngology
IRVING C. DEMAREST, A.M.....	Instructor in Classical Philology
LLOYD L. DINES, Ph.D.....	Instructor in Mathematics
HENRY B. DROWNE, C.E.....	Instructor in Highway Engineering
DONALD GORDON, M.D.....	Instructor in Physiology
GORDON HARWOOD GRAVES, A.M.....	Instructor in Mathematics
JOSEPH C. GREEN, A.M.....	Instructor in History
ROYAL STORRS HAYNES, M.D.....	Instructor in Diseases of Children
EDWARD F. HUMPHREY, Ph.D.....	Instructor in History
LOUIS IMBERT, A.M.....	Instructor in Spanish
EDWARD CRANE LYON, Jr., M.D.....	Instructor in Obstetrics
WILLIAM S. MESSER, A.M.....	Instructor in Classical Philology
NATHANIEL R. NORTON, M.D.....	Instructor in Diseases of Children
ARTHUR W. SWANN, M.D.....	Instructor in Clinical Medicine
JAMES R. WHITING, M.D....	Chief of Clinic and Instructor in Genito- Urinary Diseases
ANDREW BENDER, A.B.....	Instructor in Analytical Chemistry
ROLFE KINGSLEY, M.D.....	Instructor in Genito-Urinary Diseases
ALFRED J. BROWN, M.D.....	Instructor in Anatomy
RICHARD DERBY, M.D.....	Instructor in Anatomy
JOHN C. VAUGHAN, M.D....	Instructor in Anatomy and Assistant in Surgery
R. GARFIELD SNYDER, M.D.....	Instructor in Clinical Medicine
HENRY C. THACHER, M.D.....	Instructor in Medicine
LUTHER HERBERT ALEXANDER, Ph.D....	Instructor in the Romance Languages and Literatures
FREDERICK BARRY, Ph.D.....	Instructor in Chemistry
CHARLES G. BURD, A.M.....	Instructor in English
JOHN R. CRAWFORD, A.M.....	Instructor in Roman Archaeology
EARL CRECRAFT, Ph.B.....	Instructor in Politics
HENRY W. L. DANA, Ph.D.....	Instructor in English
GEORGE DRAPER, M.D.....	Instructor in Clinical Medicine
ARTHUR EDGAR, Ph.D.....	Instructor in Chemistry
EDWARD S. ELLIOTT, M.D.....	Instructor in Physical Education
CHARLES A. FISCHER, Ph.D.....	Instructor in Mathematics
HARRY L. FISHER, Ph.D.....	Instructor in Organic Chemistry
HARRY F. GARDNER, B.S.....	Instructor in Mineralogy
GERALD H. GROUT, M.D.....	Instructor in Ophthalmology
ROBERT M. HAIG, A.M.....	Instructor in Economics
SAMUEL CLARK HARVEY, M.D.....	Instructor in Pathology
ROBERT M. ISHAM, A.M.....	Instructor in Analytical Chemistry
BENJAMIN B. KENDRICK, A.M.....	Instructor in History



VICTOR L. LOGO, B.S.....	Instructor in Analytical Chemistry
ROBERT H. LOMBARD, S.B.....	Instructor in Chemistry
GERHARD R. LOMER, A.M.....	Instructor in English
MATTHEW T. MCCLURE, Ph.D.....	Instructor in Philosophy
FRANK S. MATHEWS, M.D.....	Instructor in Surgery
ROBERT K. MURPHY, Chem.E.....	Instructor in Engineering Chemistry
LEONARD D. NORSWORTHY, A.M.....	Instructor in Civil Engineering
HARRY V. E. PALMBLAD, A.M.....	Instructor in Germanic Languages
FRANK A. PATTERSON, Ph.D.....	Instructor in English
CHILTON L. POWELL, A.M.....	Instructor in English
FRANK C. SCHROEDER, C.E.....	Instructor in Mechanics
ERNEST L. SCOTT, S.M.....	Instructor in Physiology
JAMES CLAYTON SHARP, M.D.....	Instructor in Anatomy
FORDYCE B. ST. JOHN, M.D.....	Instructor in Anatomy and in Clinical Surgery
ARTHUR W. THOMAS, Chem.....	Instructor in Food Chemistry
OTTO VON HUFFMANN, M. D.....	Instructor in Clinical Pathology
CHARLTON WALLACE, M. D..	Instructor in Clinical Orthopaedic Surgery
HERBERT L. WHITTEMORE, Mech.E.....	Instructor in Mechanics
GEORGE F. WIESER, M.E.....	Instructor in Mechanical Engineering
NATHAN W. GREEN, M.D.....	Instructor in Surgery
MAX KAHN, M.D.....	Instructor in Biological Chemistry
EDWIN G. RAMSDELL, M.D.....	Instructor in Surgery
LOUIS E. WISE, Ph.D.....	Instructor in Biological Chemistry

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## Lecturers and other Special Officers of Instruction

ABRAHAM YOHANNAN, Ph.D.....	Lecturer in Oriental Languages
ERNST D. RICHARD, Pd.D.....	Lecturer on the History of German Civilization
WILLIAM S. DAY, Ph.D.....	Lecturer in Physics
RICHARD FRANZ BACH, A.B.....	Curator in Architecture
NICHOLAS A. KOENIG, Ph.D....	Gustav Gottheil Lecturer in Semitic Languages
FREDERICK A. VANDERBURGH, Ph.D....	Lecturer in Semitic Languages
WALTER HENRY HALL.....	Conductor of University Chorus
ALEXANDER GOLDENWEISER, Ph.D.....	Lecturer in Anthropology
LEO J. FRACHTENBERG, Ph.D.....	Lecturer in Anthropology
CLARE M. HOWARD, A.M.....	Lecturer in English in Barnard College
OSCAR H. ROGERS, M.D.....	Lecturer on Life Insurance
ETHEL STURTEVANT, A.B.....	Lecturer in English in Barnard College
HARRIET RUTH FOX, A.M.....	Lecturer in English in Barnard College
GRACE H. GOODALE, A.B....	Lecturer in Classical Philology in Barnard College
ALBERT T. POFFENBERGER, Jr., Ph.D.....	Lecturer in Psychology

WILLIAM W. STIFLER, Ph.D.....	Lecturer in Physics
HENRY N. ARNOLD, LL.B.....	Lecturer in Mining Law
FRANK C. BECKER, A.B.....	Lecturer in Philosophy
FREEMAN F. BURR, S.B.....	Lecturer in Geology
WINTHROP M. DANIELS, A.M.....	Lecturer in Economics
PIERRE DE BACOURT, B.S., B.L.....	Lecturer in Romance Languages
FRANK A. FETTER, Ph.D.....	Lecturer in Economics
GEORGE B. FORD, A.B., M.S.....	Lecturer in Architecture
DIXON R. FOX, A.M.....	Lecturer in Politics
GEORGE C. HOLT, LL.D.....	Lecturer in Patent Law
DANIEL DANA JACKSON, M.S.....	Lecturer in Sanitary Engineering
CLEMENS LEBLING.....	Curator in Palaeontology
JOHN B. WATSON, Ph.D.....	Non-resident and Lecturer in Psychology

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## Assistants

CURTENIUS GILLETTE, M.D.....	Assistant in Clinical Medicine
EDWARD CUSSLER, M.D.....	Assistant in Clinical Pathology
HERBERT B. WILCOX, M.D.....	Assistant in Diseases of Children
FREDERICK JAMES BARRETT, M.D.....	Assistant in Clinical Medicine
LILIAN BRANDT, M.A.....	Assistant in Social Economy
LEWIS M. SILVER, M.D.....	Assistant in Diseases of Children
RANSOM S. HOOKER, M.D.....	Assistant in Clinical Surgery
BERNARD O. DODGE, Ph.D.....	Research Assistant in Botany
FRANK ERDWURM, M.D.....	Assistant in Clinical Medicine
FREDERICK P. WHITAKER, LL.B.....	Assistant in Law
JOHN F. DASHIELL, A.M.....	Assistant in Philosophy
KIRBY DWIGHT, M.D.....	Assistant in Surgery
J. GARDNER HOPKINS, M.D.....	Assistant in Clinical Pathology
ARTHUR LEFFERTS HUTTON, M.D.....	Assistant in Applied Therapeutics
HENRY JAMES, M.D.....	Assistant in Medicine
CHARLES PACKARD, M.S.....	Assistant in Zoölogy
HAROLD PERRINE, A.M.....	Assistant in Civil Engineering
E. STAGG WHITIN, Ph.D.....	Assistant in Social Legislation
GEORGE A. SCOTT, B.S.....	Assistant in Physics
EDGAR ALTENBURG, A.M.....	Assistant in Botany
HELENE M. BOAS, A.M.....	Assistant in Botany in Barnard College
WILLIAM B. BOYD, M.D.....	Assistant in Applied Therapeutics
CLEMENT S. BRAININ, A.B.....	Assistant in Physics
EDWARD C. BRENNER, M.D.....	Assistant in Clinical Medicine
EVEREND L. BRUCE, A.M.....	Assistant in Mineralogy
JOHN J. COSS, A.M.....	Assistant in Philosophy
CHARLES R. FETTEKE, A.M.....	Assistant in Geology
FRED D. FROMME, B.S.....	Assistant in Botany
PAUL C. HAESSELER, S.B.....	Assistant in Chemistry

FERDINAND F. HINTZE, A.M.	Assistant in Palaeontology
ALBERT R. LAMB, M.D.	Assistant in Pathology
WALTER W. MCKIRAHAN, A.B.	Laboratory Assistant in Physical Chemistry
HARRIS MOAK, M.D.	Assistant in Bacteriology
GEORGE A. PFEIFFER, A.M.	Assistant in Mathematics
MONTGOMERY H. SICARD, M.D.	Assistant in Clinical Obstetrics
WILLARD B. SOPER, M.D.	Assistant in Pathology
ARCHIBALD McI. STRONG, M.D.	Assistant in Medicine
WILLIAM HUNT MURPHY, B.S.	Assistant in Physics
RUTH W. RAEDER, A.M.	Assistant in Geology in Barnard College
HAROLD P. BANKS, E.M.	Assistant in Metallurgy
LAURA C. BRANT, A.M.	Assistant in Physics in Barnard College
ARTHUR M. BUSWELL, A.M.	Laboratory Assistant in Chemistry
ROBERT P. CALVERT, A.M., S.M.	Research Assistant in Chemistry
GASTON A. CARLUCCI, M.D.	Assistant in Clinical Pathology
ELLA HAZEL CLARK, A.M.	Assistant in Chemistry in Barnard College
JAMES BRUCE COLEMAN, A.M.	Assistant in Physics
CLARKE EDWIN DAVIS, A.B.	Laboratory Assistant in Chemistry
RUTH S. FINCH, A.M.	Assistant in Chemistry in Barnard College
HUBERT B. GOODRICH, B.S.	Assistant in Zoölogy
FREDERIC G. GOODRIDGE, M.D.	Assistant in Biological Chemistry
RALPH E. GOODWIN, C.E.	Assistant in Civil Engineering
FREDERICK S. GOUCHER, A.M.	Assistant in Physics
WALTER C. GRAETZ, B.S.	Assistant in Electrical Engineering
ARTHUR KNUDSON, A.B.	Assistant in Biological Chemistry
OTTO KUNKEL, A.M.	Assistant in Botany
ESTHER E. LAPE, A.B.	Assistant in English in Barnard College
JOHN A. MCKINLEY, Jr.	Assistant in Drawing
EDGAR G. MILLER, Jr., B.S.	Assistant in Biological Chemistry
HERMANN J. MULLER, A.M.	Assistant in Zoölogy
ARTHUR E. NEERGAARD, M.D.	Assistant in Medicine
JULIET STUART POYNTZ, A.M.	Assistant in History in Barnard College
ALFRED E. REJALL, A.M.	Assistant in Psychology
HERBERT N. SHENTON, A.M.	Assistant in Sociology
EARL B. STAVELY, B.S.	Assistant in Electrical Engineering
LOUIS C. WHITON, Jr., Ph.B.	Laboratory Assistant in Engineering Chemistry
GEORGE F. WILLIAMSON, A.M.	Assistant in Psychology
LEVI THOMAS WILSON, A.M.	Assistant in Mathematics
WINTHROP ROBINS WRIGHT, A.B.	Assistant in Physics
ALEXANDER LOWY, A.M.	Laboratory Assistant in Electro-Chemistry
THEODORE J. ABBOTT, M.D.	Assistant in Diseases of Children



## CLINICAL ASSISTANTS AT THE VANDERBILT CLINIC

Officers of instruction holding appointments in addition to that of Clinical Assistant are not included in this list. A complete list of the Clinical Assistants in each subject will be found at the head of the appropriate Departmental Statement.

## In Medicine

JULIUS W. WEINSTEIN, M.D.	G. A. FRIEDMAN, M.D.
D. CLIFFORD MARTIN, M.D.	LEO KESSEL, M.D.
ARTHUR MIDDLETON JACOBUS, M.D.	BARNETT QUEL, M.D.
JOHN MCCABE, M.D.	G. H. HUMPHREYS, M.D.
DAVID S. LIKELY, M.D.	J. EPSTEIN, M.D.
E. GARNSEY BROWNELL, M.D.	JAMES M. KENT, M.D.
ALBERT K. DETWILLER, M.D.	ALEXANDER ROSENTHAL, M.D.
HERMAN FRIED, M.D.	E. A. PASCALE, M.D.
MARKS S. SHAINÉ, M.D.	M. FRIEDSON, M.D.
CLEMENT C. YOUNG, M.D.	F. C. HORSFORD, M.D.
W. J. VOGELER, M.D.	HENRY C. FLEMING, M.D.

## In Surgery

NOEL B. LEGGETT, M.D.	GOUVERNEUR M. PHELPS, M.D.
FRANK C. YEOMANS, M.D.	HENRY S. DUNNING, M.D.

## In Orthopaedic Surgery

S. KLEINBERG, M.D.	WILLIAM FRIEDER, M.D.
BRAINERD H. WHITBECK, M.D.	

## In Neurology

CHARLES E. ATWOOD, M.D.	WILLIAM V. P. GARRETSON, M.D.
E. J. MCENTEE, M.D.	ABRAHAM A. BRILL, M.D.
J. E. CLARK, M.D.	ROBERT E. POU, M.D.
J. L. MACUMBER, M.D.	J. C. FISK, M.D.
CHRISTOPHER C. BELING, M.D.	RICHARD H. MACRAE, M.D.
CHARLES H. HOLMES, M.D.	GUSTAV F. BOEHME, M.D.

## In Gynecology

WILLIAM L. BRADLEY, M.D.	AUGUSTINE W. ROFF, M.D.
HENRY K. W. KELLOGG, M.D.	WALTER M. SILLECK, M.D.
CLINTON B. KNAPP, M.D.	

## In Ophthalmology

NATHAN GOODFRIEND, M.D.	F. M. SHOOK, M.D.
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## In Laryngology

(Including Diseases of the Larynx, Pharynx, and Nasal Passages)

A. P. COLL, M.D.	CHARLES OSGOOD, M.D.
JOHN LESHURE, M.D.	E. WILLIS KOBLER, M.D.
F. CONGER SMITH, M.D.	EDWARD E. MYERS, M.D.
IRVING W. VOORHEES, M.D.	DANIEL S. HARDENBERG, M.D.
C. D. VAN WAGENEN, M.D.	DAVID A. SINGER, M.D.
A. S. BLUMGARTEN, M.D.	

## In Dermatology

JOHN ALDRICH, M.D.	CHARLES T. DADE, M.D.
J. D. GOLD, M.D.	SELDEN IRWIN RAINFORTH, M.D.
GEORGE HOWARD FOX, M.D.	

## In Diseases of Children

IRA S. WILE, M.D.	B. WALLACE HAMILTON, M.D.
GEORGE AUGUSTUS SCHNEPEL, M.D.	THEODORE J. ABBOTT, M.D.
MARK REUBEN, M.D.	GUSTAVE MANNING, M.D.
LESSER B. GROESCHEL, M.D.	

## In Genito-Urinary Diseases

BERNARD KOHN, M.D.	MAYNARD S. OWEN, M.D.
JAMES ALBERT COWAN, M.D.	F. W. BANCROFT, M.D.
THOMAS J. CARNEY, M.D.	WALTER S. GRAHAM, M.D.

## In Applied Therapeutics

PAUL BARTHOLOW, M.D.	EDMUND M. DEVOL, M.D.
ATHEL C. BURNHAM, M.D.	E. R. P. JANVRIN, M.D.
BENJAMIN J. BECK, M.D.	D. R. P. HEATON, M.D.
SOLOMON BECK, M.D.	GEORGE H. HUMPHREYS, M.D.
PHINEAS H. ADAMS, M.D.	

## In Hydrotherapy

ALBERT J. WITTSOON, M.D.

## In Psychiatry

ABRAHAM A. BRILL, M.D.	C. F. HAVILAND, M.D.
ROBERT EDWARD POULSON, M.D.	

## In Otology

MAX NISSELSOON, M.D.



# Columbia University in the City of New York

## GENERAL STATEMENT

On October 31, 1754, Letters Patent were issued incorporating THE GOVERNORS OF THE COLLEGE OF THE PROVINCE OF NEW YORK IN THE CITY OF NEW YORK IN AMERICA and providing for the establishment of a College to be known as King's College "for the Instruction and Education of Youth in the Learned Languages and in the Liberal Arts and Sciences." The conclusion of the announcement issued in the same year reads: "A serious, virtuous, and industrious Course of Life being first provided for, it is further the Design of this College, to instruct and perfect the Youth in the learned Languages, and in the Arts of Reasoning exactly, of Writing correctly, and Speaking eloquently: And in the Arts of Numbering and Measuring, of Surveying and Navigation, of Geography and History, of Husbandry, Commerce, and Government; and in the Knowledge of all Nature in the Heavens above us, and in the Air, Water, and Earth around us, and the various Kinds of Meteors, Stones, Mines and Minerals, Plants and Animals, and of every Thing useful for the Comfort, the Convenience, and Elegance of Life, in the chief Manufactures relating to any of these things: And finally, to lead them from the Study of Nature, to the Knowledge of themselves, and of the God of Nature, and their Duty to Him, themselves, and one another; and every Thing that can contribute to their true Happiness, both here and hereafter." The educational work of the College was at once commenced under the presidency of Dr. Samuel Johnson with a class of eight students and the first Commencement was held on June 21, 1758. The first college building, erected on a portion of the "Kings Farm," at what is now the corner of Park Place and Church Street was completed in 1760. The Revolutionary War, during which this building was taken for military and hospital purposes, compelled a suspension of activities. King's College numbers among its students and graduates Alexander

**Historical<sup>1</sup>**

<sup>1</sup> The attention of those interested in the historical development of the University is called to *The History of Columbia University, 1754-1904* (pp. xiii + 493), published in Commemoration of the One Hundred and Fiftieth Anniversary of the Founding of King's College, by the Columbia University Press, Lemcke and Buechner, New York, agents, and to various articles in the *Columbia University Quarterly*.

Hamilton, John Jay, Robert R. Livingston, Gouverneur Morris and John Stevens.

In 1784, the Legislature of the State of New York passed an act incorporating the "REGENTS OF THE UNIVERSITY OF THE STATE OF NEW YORK," vesting the property of King's College in the Regents, and changing the name of the College to Columbia College. In 1787, this act was repealed, and an act was passed confirming the Royal Charter of 1754 and vesting the property and franchises of King's College in "The Trustees of Columbia College in the City of New York."

In 1810, the charter was again amended in certain particulars at the request of the Trustees, and re-enacted, but the corporate title remained the same until 1912 when by order of the Court of Appeals of the State of New York it was changed to "The Trustees of Columbia University in the City of New York." In 1897 the University removed from its former site at 49th Street and Madison Avenue to Morningside Heights.

The title to all corporate property is vested in a board of twenty-four Trustees, whose term of office is for life, and who form a self-perpetuating body, exercising the power of appointment as to all officers of instruction and administration and general oversight and control of the affairs of the University. In 1909 provision was made for the nomination by the Alumni of six of the twenty-four Trustees (see p. 487).

The PRESIDENT has charge of the educational administration of the University and is Chairman of the University Council and of every faculty established by the Trustees. The Treasurer of the corporation elected by the Trustees has charge of the financial administration of the University. The other principal administrative officers are the Deans, and Directors, who under the general supervision of the President have immediate charge of the Educational work of the University; the Provost of the University, the Librarian, the Chaplain, the Consulting Engineer, the Secretary of the University, the Registrar, the Bursar, and the Superintendent of Buildings and Grounds.

The UNIVERSITY COUNCIL (see p. 3) is a representative body consisting of the President, the Deans, certain other executive officers, and two members elected from each of the several faculties. Subject to the reserved power of control by the Trustees, it is the function of the Council (a) to control the award of the higher degrees, to secure the correlation of courses with a view to increasing the efficiency and enlarging the range of University work, to encourage original research, and to adjust all questions involving more than one faculty; (b) to make recommendations, both to the Trustees and to the several faculties, concerning the educational administration of the University, and to advise the President upon such matters as he may bring before it; (c) to appoint all Fellows and



University Scholars and, within the limits of the Statutes, to make rules for their government (see page 450).

The University includes the following:

COLUMBIA COLLEGE (see p. 190) offers a program of studies leading to the degrees of Bachelor of Arts and Bachelor of Science.

Emphasis is placed upon the quality of the student's work rather than upon the time spent in residence, and this combined with the close co-ordination of the work of the Summer Session and Extension Teaching with that of the College makes it possible for a well prepared candidate to complete the requirements for the bachelor's degree in three and one-half or three years. The program provides not only for those students who wish to devote their entire time to undergraduate work, but for those who desire during their collegiate residence to prepare themselves for advanced standing in some professional course of study. As a preliminary to any professional courses the University strongly recommends at least two years of collegiate work, and candidates for professional degrees who are not already college graduates are advised to take advantage of the opportunities offered through Columbia College for a combination of general and professional studies which will lead to the bachelor's degree in arts or science, in addition to a professional degree in law, medicine, mining, engineering, chemistry, architecture, or teaching, in six years.

BARNARD COLLEGE (see p. 345), founded in 1889, is a separate corporation. As an undergraduate college for women, however, it bears the same relation to the educational system of Columbia University as does Columbia College for men. The requirements for admission and the standard of scholarship are of the same grade. The students receive their instruction in the Barnard College buildings. The degree of Bachelor of Arts or Bachelor of Science is conferred upon its graduates by the University on the recommendation of the Faculty of Barnard College. (For the regulations governing candidates for an academic degree and a diploma in teaching, see p. 344.)

THE GRADUATE FACULTIES of the University offer advanced courses of study and investigation leading to appropriate degrees and certificates in (a) law, (b) medicine, (c) philosophy, education, philology, and letters, (d) history, economics and social science, and public law, (e) mathematics and natural science, (f) mines, engineering, and chemistry, (g) fine arts, and (h) pharmacy. Women students are admitted to all graduate courses except in law, medicine, mines, engineering, and chemistry.

The division of the University into faculties and schools neither controls nor limits the student in his freedom of electing, under one or several of the faculties, courses that lead to the degrees of Master of Arts and Doctor of Philosophy (see p. 184). Advanced courses and opportunities for original research leading primarily to these degrees are offered by:

THE FACULTY OF PHILOSOPHY (see p. 278), in philosophy and education, psychology, and anthropology classical philology, English, comparative literature, and the Germanic, the Romance, and the Oriental languages;

THE FACULTY OF POLITICAL SCIENCE (see p. 275), in history and political philosophy, economics and social science, and public law and comparative jurisprudence;

THE FACULTY OF PURE SCIENCE (see p. 280), in mathematics, astronomy, physics (mathematical and experimental), chemistry, mineralogy, geology, zoölogy, botany, psychology, physiology, anatomy, bacteriology, embryology, biological chemistry, pathology, and engineering in its various branches;

THE SCHOOL OF LAW (see p. 212), established in 1858, offers a course of three years in the principles and practice of private and public law, leading to the degree of Bachelor of Laws;

THE COLLEGE OF PHYSICIANS AND SURGEONS (see p. 227), founded in 1807, offers a course of four years in the principles and practice of medicine and surgery, leading to the degree of Doctor of Medicine;

THE SCHOOL OF MINES (see p. 244), founded in 1863, offers four-year courses of study in mining and metallurgical engineering, leading to a professional degree;

THE SCHOOLS OF ENGINEERING AND CHEMISTRY (see p. 244), set off from the School of Mines in 1896, offer four-year courses, leading to appropriate professional degrees in chemistry and chemical engineering and in civil, sanitary, electrical, and mechanical engineering.

THE FACULTY OF FINE ARTS (see p. 319) was organized in 1906 and given jurisdiction over the following schools: Architecture (founded as a department in 1880), Music (founded as a department in 1896), Design (1906); and offers courses of study of indeterminate length, leading to appropriate degrees and certificates in Architecture and Music, and, in coöperation with the National Academy of Design (see p. 326), to a certificate in Design;

THE SCHOOL OF JOURNALISM (see p. 332), founded in 1912 through the gift of the late Joseph Pulitzer, offers a four-year course of study in letters, science, and practical journalism leading to the degree of Bachelor of Literature;

TEACHERS COLLEGE (see p. 358), founded in 1888 and chartered in 1889, was included in the University in 1898. It is a separate corporation, but takes academic rank in the University system as a professional school for teachers. It offers through the Faculty of Education the following courses of study: (a) graduate courses leading to the doctor's or master's diploma; and simultaneously to the doctor's and master's degrees under the faculty of Philosophy; (b) professional courses, each of two years, based upon two years of collegiate study, leading to the



bachelor's diploma for teachers and supervisors in kindergartens or elementary schools, or for specialists in fine arts, household arts, industrial arts, music, nurses education and physical education, and to the degree of Bachelor of Science in Education; and through the Faculty of Practical Arts a four years program of study, based on a secondary school education, uniting liberal with technical training and leading to the degree of Bachelor of Science in Practical Arts.

THE COLLEGE OF PHARMACY (see p. 399) is, similarly, a separate corporation. It offers University courses leading to the degrees of Pharmaceutical Chemist and Doctor of Pharmacy.

In coöperation with Yale University, courses are offered designed to prepare students for work in foreign countries, either in the service of the United States Government or otherwise (see p. 276).

A provisional course of study in PREVENTIVE MEDICINE has been approved and the courses will be put into operation when the necessary funds have been made available.

The University maintains a SUMMER SESSION (see p. 412), of six weeks' duration, in which are offered courses that are accepted in partial fulfillment of the requirements of certain academic degrees and of the diplomas in teaching. The same academic standards are maintained as in the courses offered from September to June.

Through its system of EXTENSION TEACHING (see p. 412), the University offers to men and women, especially to those engaged in teaching, who can give only a portion of their time to study, an opportunity to pursue subjects included in a liberal education and to make progress, if they so desire, toward a diploma in teaching or an academic degree.

The several Departments of Study maintained by the University, including Barnard College, Teachers College, and the College of Pharmacy, grouped in divisions, are as follows:

ANCIENT AND ORIENTAL LANGUAGES AND LITERATURES: **Departments**  
Classical Philology, Chinese, Indo-Iranian, and Semitic **and Division**  
Languages.

BIOLOGY: Anatomy, Bacteriology, Botany, Physiology, Pathology, Biological Chemistry, and Zoölogy.

CHEMISTRY: Chemistry.

EDUCATION (TEACHERS COLLEGE: Faculties of Education and Practical Arts).

ENGINEERING: Civil Engineering, Electrical Engineering, Highway Engineering, Mechanical Engineering and Engineering Drafting.

FINE ARTS (FACULTY OF FINE ARTS): Architecture, Fine Arts, and Music.

GEOLOGY, GEOGRAPHY, AND MINERALOGY: Geology, Geography, and Mineralogy.

HISTORY, ECONOMICS, AND PUBLIC LAW (FACULTY OF POLITICAL SCIENCE): Economics, Social Economy, Sociology and Statistics, History, and Politics, Public Law and Comparative Jurisprudence.

JOURNALISM: School of Journalism.

MATHEMATICAL AND PHYSICAL SCIENCE: Astronomy, Mathematics and Physics.

MEDICINE (COLLEGE OF PHYSICIANS AND SURGEONS).

METALLURGY AND MINING: Metallurgy and Mining.

MODERN LANGUAGES AND LITERATURES: English and Comparative Literature, Celtic, Germanic, and Romance Languages.

PHARMACY (COLLEGE OF PHARMACY).

PHILOSOPHY, PSYCHOLOGY, AND ANTHROPOLOGY: Anthropology, Philosophy, and Psychology.

PHYSICAL EDUCATION: Physical Education.

PRIVATE LAW (FACULTY OF LAW).

The Announcements of each College or School, of the Summer Session, of Extension Teaching, and of the several Divisions, are issued annually or biennially in the form of Bulletins of Information, and may be obtained without charge from the Secretary of the University.

## GENERAL REGULATIONS

### STATUS OF STUDENTS

A student may enter Columbia University as either:

1. A matriculated student accepted by the University as having fulfilled the preliminary qualifications for candidacy for a degree, certificate of proficiency, or diploma. A period of regular attendance upon all stated academic exercises<sup>1</sup> amounting to at least one academic year must be completed by each candidate; or

2. A non-matriculated student, permitted to attend such courses as he may be qualified to take but not regarded as a candidate for a degree, certificate of proficiency, or diploma. Non-matriculated students may, however, receive a formal statement as to the satisfactory completion of any course or courses.

In the announcement of each faculty will be found the conditions governing the admission of matriculated and non-matriculated students to courses under that faculty.

Under the Statutes every student is admitted subject to the disciplinary powers of the University authorities. The President is empowered to administer discipline and to authorize the Deans of the several faculties to do so on his behalf.

<sup>1</sup> Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance, should make application to the appropriate University authority for equitable relief.

## REGISTRATION

Before attending any University exercises each student must register, *i. e.*, must present himself in person to furnish the information necessary for the University records and to file a statement of the courses he is authorized to pursue (for the matriculation or registration fee, payable but once, see p. 41). The central office of the Registrar, 201 East Hall, and the offices at the College of Physicians and Surgeons, 437 West 59th Street, at the College of Pharmacy, 115 West 68th Street, and at Barnard College and Teachers College, will be open for registration on February 3 and 4, 1913, from September 17 to September 23, 1913, and on February 3 and 4, 1914. New students may also register on the day following each of these periods. Those unable to complete their registration may file a provisional statement within the statutory period. Students registering late are charged an additional fee of \$5 and are held accountable for absences thus incurred.

Students holding fellowships or scholarships are required to register not later than the date specified in the University calendar; failure to do so may be considered as vacating the fellowship or scholarship.

The requirements for graduation may be completed at any time during the year, but diplomas are issued only at commencement and at the beginning of each half-year.

## Withdrawal

An honorable discharge is granted to any adult student in good standing who may desire to withdraw from the University; a minor must submit the written assent of his parent or guardian.

Students withdrawing from the University are requested to notify the Registrar. No application for a return of fees can be considered unless written notice be given at the time of withdrawal.

The Dean of any faculty may, for reasons of weight, grant a leave of absence to a student in good standing.

## FEES

(Exclusive of Barnard College, Teachers College, and the College of Pharmacy.)

The regulations as to fees adopted by the Trustees of Columbia College in the City of New York are at present as follows. They are subject to change by them at their discretion. The President is under instructions to withdraw the privileges of students delinquent in payment after the second Wednesday of each half-year.

(a) <i>For Matriculation or Registration:</i> Required of all students before entrance, payable but once.....	\$ 5
<i>For late Registration</i> (see above).....	5

*For Change of Registration* after the second Saturday (in the Schools of Political Science, Philosophy, and Pure Science after the fourth Saturday) of any half-year, for any course or courses added or dropped at any one time..... 1

(b) *For Tuition*, payable at the beginning of each half-year:

*For Matriculated Students:*

In the College, per point (see page 191).....	5
To be paid for the total number of points <sup>1</sup> for which the student is permitted to register; with extra charges for certain allowed professional courses, not to exceed \$50 in any half-year.	
In the School of Law.....per half-year	75
In the College of Physicians and Surgeons....per half-year	\$ 125
In the Schools of Mines, Engineering, and Chemistry (exclusive of certain summer-course fees, see page 45) . .per half-year	125
In the Schools of Fine Arts.....per half-year	75-100
In Architecture the fees are at the rate of \$100 per half-year, except that a student who lacks less than 14 points for the degree or certificate is charged at the rate of \$7.50 per point. In Music the fees are at the rate of \$7.50 per half-year for each hour of attendance a week up to a maximum of \$75.	
In the School of Journalism, per point, <i>i. e.</i> , unit-hour per half-year.....	5
Candidates for the degrees of Master of Arts and Doctor of Philosophy, exclusive of laboratory fees (see page 45) and of charges, not to exceed \$50, for certain professional courses, per full course \$20, per half-course \$10, per double course \$30—no candidate being permitted to register for less than one full course, or an equivalent—with a maximum per half-year of.....	75
With a minimum fee of \$150 for courses taken to fulfil the requirements for the degree of Master of Arts, and of \$300* for courses taken to fulfil the requirements for the degree of Doctor of Philosophy, irrespective of the aggregate number of courses attended.	

With a maximum fee—for courses aggregating, for the

<sup>1</sup> A "point" is the equivalent of attendance one hour a week for one half-year in class-room exercises, or two hours a week for one half-year in laboratory exercises.

\*Unless, because of having passed at least one year in graduate study at an approved university, the candidate may be excused from attending a longer period than one year in Columbia University, in which case the minimum tuition fee is \$150.

Tuition fees paid by a candidate for A.M. will be credited toward the minimum and the maximum fee for Ph.D., provided there be no change in the choice of major and minor subjects.



master's degree eight full courses, or an equivalent, for the doctor's degree sixteen full courses, or an equivalent—of \$150 and \$300, respectively, when the course does not exceed for the master's degree, four, and for the doctor's degree, six years.

A candidate for the doctor's degree who has paid tuition fees amounting to \$300 and has taken sixteen full courses, or an equivalent, may attend courses without charge for two additional half-years prior to the expiration of six years from the beginning of his candidacy.

*For Non-Matriculated Students* (and matriculated students taking part time).

For Tuition, except in the Schools of Political Science, Philosophy and Pure Science, at the rate of \$7.50 per half-year for each hour of attendance per week on lectures, or recitations with a maximum fee, exclusive of charges, not to exceed \$50, for certain professional courses.....per half-year 75

With the following exceptions:

In the School of Medicine and in the Schools of Mines, Engineering, and Chemistry, the maximum fee per half-year is \$125, in Columbia College and the School of Architecture \$100, and in the School of Journalism \$90. For other fees see page 45.

For Tuition, for non-matriculated students in the Schools of Political Science, Philosophy and Pure Science, except in the Summer Session, \$25 per full course, \$15 per half-course, \$35 per double course, with a maximum fee per half year..... 75

For laboratory instruction, except in Columbia College—where it is charged for by points—\$7.50 per half-year for each two hours weekly, with a maximum of \$25 per half-year when the number of hours weekly of such instruction does not exceed nine, and \$40 per half-year when the number of hours weekly exceeds nine.

*For Tuition in the Summer Session*, except in the case of courses numbered above 100, for any course or courses aggregating not more than six points..... 30

For courses aggregating more than six points..... 35-40

In the case of courses numbered above 100, the fees are: \$20 per full course, \$10 per half-course, \$30 per double course, with a minimum of \$30 in any one Summer Session.

*For Students in Extension Teaching*, in courses, other than those numbered above 100, that may be taken for credit toward a degree or diploma, per half-year hour (two laboratory hours counting as one)..... 5

In the case of courses numbered above 100 the fees are: \$20 per full course, \$10 per half course, \$30 per double course.

For special fees in courses not so credited see the separately printed Announcement of Extension Teaching. Fees for courses in Extension Teaching to be paid irrespective of the privileges otherwise secured by the payment of a maximum half-year fee.

- (c) *For Examinations, payable in each case before examination is held:*
- |   |      |
|---|------|
| For the first examination or the first series of examinations for admission*..... | \$10 |
| For any subsequent examination or series of examinations for admission.....       | \$5  |
- Provided that the initial examination fee above prescribed shall be credited in lieu of the matriculation or the first registration fee whenever the candidate shall thereafter be admitted as a matriculated or a non-matriculated student, respectively.
- |  |    |
|--|----|
| For any deficiency examination or series of deficiency examinations held in the week preceding the opening of the first half-year, for each course. .... | 5  |
| with a maximum fee of.....   | 25 |
- For a deficiency examination at any other time than in the period designated above, whether taken at the conclusion of a course repeated by the student in addition to his normal schedule (except in Columbia College and the School of Journalism) or without such repetition, for each course. ....
- |   |
|---|
| 5 |
|---|
- For special examinations at unusual times:
- |   |    |
|---|----|
| For admission, for the series.....                            | 5  |
| For removal of deficiencies in course, for each subject. .... | 5  |
| For the degree of Doctor of Philosophy.....                   | 35 |
- (d) *For Degrees, payable on or before the ultimate date fixed by the University calendar for the filing of applications for the respective degrees:*
- |   |    |
|---|----|
| For the Bachelor's degree (not professional or technical).....  | 15 |
| For any professional or technical degree or certificate (including the degree of B.Lit. in the School of Journalism)..... | 25 |
| For the Foreign Service Certificate.....  | 10 |
| For the Degree of Master of Arts.....   | 25 |
- (e) *For Use of the Gymnasium and Baths, and the exclusive use of a locker, per year.....*
- |   |
|---|
| 7 |
|---|
- Required of all students except the following, who are exempt:*

\* From and after July 1, 1913.

- (1) Students in the Graduate Faculties, students in Medicine and Pharmacy, and those in other professional schools who hold an academic degree, and students in Extension Teaching, unless they shall elect to use the privileges of the Gymnasium;
- (2) Students who have paid this fee for four years, unless they shall elect to use the privileges of the Gymnasium;
- (3) Students presenting the certificate of the Director of the Gymnasium, showing actual physical disability.

Summer Session, optional..... \$ 5

For the fees prescribed by the Trustees of Barnard College, Teachers College, and the College of Pharmacy see the separately printed Announcements.

#### Laboratory and Other Special Fees and Deposits

The Statutes provide that students taking laboratory or field courses or making use of the laboratories may be charged a fee therefor in accordance with a schedule prepared by the department concerned and on file in the Office of the Registrar. A deposit for the use of the apparatus, material, and other like purpose shall also be charged.

#### Summer Courses in Surveying, Mining, and Geodesy

Laboratory fees, payable on or before the last Saturday in May, are required as follows: Civil Engineering course No. 15, \$25, or \$7 per survey; No. 25 and No. 27, \$15, or \$3.50 per survey; No. 26, \$5; No. 28 and No. 71, \$10.

Non-candidates, candidates for admission to, and students having entered with, advanced standing, who may be required to attend these courses and, students who fail to complete them in the summer to which they are assigned, are charged in addition tuition fees as follows: No. 15, \$35; No. 25, No. 27, No. 28, and No. 71, \$25; No. 26, \$10. Students entering with credit for part of course 15 shall pay a tuition fee of \$10 for each survey. A tuition of fee \$6 is required for each survey of courses 25 or 27 taken under similar conditions. In the case of a student registered in Columbia College who has paid an additional fee under the operation of this rule, an equitable credit will be made should he later complete the requirements for a professional degree provided he has taken the courses at the time prescribed in the curriculum. In the case of a student admitted to advanced standing the additional fee may be refunded in whole or in part, according to regulations which may be learned from the Registrar.

Candidates for admission to advanced standing who attend the Summer Course in Practical Mining are required to pay therefor a fee of \$50. All students attending the Summer Course in Geodesy must pay a fee of \$20 for the course.



## Deposits for Apparatus Supplies and for Keys to Desks and Lockers

A deposit for the use of lockers, keys, apparatus, material, and the like, ranging from \$1 to \$40, is required of students in Mines, Engineering, Chemistry, and Architecture. At the end of the year each student will be credited with those articles which he returns in good order, and the value of those he has injured or broken will be deducted from his deposit. Details may be obtained from the Bursar.

## Comparative Statement of Students' Probable Expenses for the Academic Year, October to June

## BASED ON STUDENTS' STATEMENTS

	Low	Average	Liberal
Matriculation Fee (First Year).....	\$ 5	\$ 5	\$ 5
Tuition Fee <sup>1</sup> .....	150	150	150
Gymnasium Fee.....	7	7	7
Books.....	18	30	40 up
Incidentals.....	7	15	33 "
Residence Hall (39 weeks).....	100	128	180 "
Commons (39 weeks).....	150	191	236 "
Clothes and Washing.....	46	80	125 "
All other expenses.....	24	57	100 "
Total.....	\$507	\$663	\$876 up

## Residence Halls and University Commons

(See page 52)

## EMPLOYMENT FOR STUDENTS

The University endeavors to give students who need it the opportunity to earn enough for partial or complete support and to extend assistance in other ways. During the year 1911-12 the student earnings reported amounted to \$95,053.53.

Preference is naturally given, in case of a choice of applicants, to those who, as strangers in New York, are not likely to hear of positions through other channels. No prospective student should come to Columbia expecting to depend entirely or even largely upon the assistance of the University, and every student should be prepared to meet at least the expenses of the first half-year—say \$300.

<sup>1</sup> For Medicine and Mines, Engineering and Chemistry, add \$100, and for Architecture add \$50. Students in Mines, Engineering, and Chemistry should also make provision for deposits for apparatus ranging from \$10 to \$40 and for Summer Courses.

The chiefs of clinic in the Medical School give advice without charge to students on the employment lists.

Malcolm M. Roy, A.B., 1909, is Secretary of Employment and all communications should be sent to him.

### APPOINTMENT COMMITTEES

The duty of these committees is to assist competent graduates of the University to obtain suitable permanent employment.

The committees keep classified lists of those who wish employment and will be glad to be informed promptly of present or prospective vacancies in positions for which college-trained men or women are eligible.

No fees are charged for any service rendered by either committee.

#### For positions in Colleges and Universities except in the Department of Education

Professor THOMAS, Chairman, Professors SELIGMAN, CATTELL, TODD, KIRCHWEY, WHEELER, and THORNDIKE (A. H.).

Communications in regard to vacancies and recommendations of suitable candidates for the same should be addressed to Malcolm M. Roy, Secretary of the committee.

#### For college and university positions in Education, and for administrative Supervisory, and Teaching positions in Normal, Secondary and Elementary Schools and Kindergartens

Dean, RUSSELL, Chairman; Professors, KEMP, KILPATRICK, McMURRY, SMITH (D. E.), STRAYER, THORNDIKE (E. L.), and TRENT.

Communications should be addressed to the Chairman of the Committee, or to its Secretary, Professor William H. Kilpatrick.

### FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

(See page 450)

### RELATIONS BETWEEN THE UNIVERSITY AND OTHER INSTITUTIONS

The educational opportunities of students in Columbia University (including Barnard College, Teachers College, and the New York College of Pharmacy) are increased by the close relations of the University with other institutions of instruction and research.

#### The Theodore Roosevelt and Kaiser Wilhelm Professorships

The Theodore Roosevelt Professorship of American History and Institutions in the University of Berlin has been endowed by the gift of \$50,000 to the Trustees of Columbia University. Appointments are made annually with the sanction of the German Emperor by the Prussian Ministry of Education upon the nomination of Columbia University, but are not confined to members of this University. In successive years the fields of American history, American constitutional and administrative law, American economic and sociological problems and movements,

American education, and American contributions to science, technology, the arts and literature, will be dealt with. The instruction will be given in German in the University of Berlin during each winter semester, and may be repeated in whole or in part elsewhere during the ensuing semester.

The Prussian Ministry of Education has established in Columbia University a corresponding chair of German History and Institutions, to be filled each year by the Trustees of Columbia University upon the nomination of the Prussian Ministry of Education. To this chair the name of the Kaiser Wilhelm Professorship of German History and Institutions has been given, with the approval of the German Emperor.

(See also page 484)

#### **The Visiting French Professorship**

By agreement with the Council of the University of Paris there has been established in Columbia University a new professorship to be known as the Visiting French Professorship. The appointment is made each year jointly by the Council of the University of Paris and the Trustees of the University. The Visiting French Professor is to be in residence at the University for three months during the first half-year and to conduct a seminar after the manner of the Conferences of the University of Paris.

(See also page 484)

#### **American Museum of Natural History**

The American Museum of Natural History places its collection at the service of advanced students of Columbia University for the purposes of study and research, and provides them with the necessary facilities for work. The Director of the Museum is a member of the Faculty of Pure Science of the University.

#### **National Academy of Design**

The agreement of February 5, 1906, between the University and the Academy makes provision for the closest relations between the two institutions in the development of the study of design in New York City. (See page 326.) The President of the Academy is a member of the Faculty of Fine Arts, and the professors in the departments of painting, sculpture, and in the decorative arts are appointed upon the joint recommendation of the President of the University and the Council of the Academy.

#### **Metropolitan Museum of Art**

The Metropolitan Museum of Art admits students of Columbia University on presentation of cards of introduction from the University, and gives them special facilities for the study of the objects in the Museum. The Director and Assistant Director are members of the Faculty of Fine Arts.

**The New York Botanical Garden**

Columbia University has the privilege of conducting university courses in botany at the New York Botanical Garden and of using its laboratories and floral material, and all courses of instruction given there are open to officers and students of the University without charge. The Director is a member of the Faculty of Pure Science. For a description of the equipment of the Botanical Garden, see the statement of the Department of Botany (page 67).

**Theological Seminaries**

The Union Theological Seminary and the General Theological Seminary, both of which are represented in the University Council, admit students of high standing in the University to certain lectures in their regular or special courses without tuition fee. Libraries of the Seminaries, for reference, are open to all qualified students of the University. Reciprocal advantages are offered by the University to students of the Seminaries who are qualified to register as candidates for the higher degrees. The General Theological Seminary offers a scholarship to graduates of Columbia College.

The University also enjoys reciprocal arrangements with the other theological seminaries in the vicinity of New York—the Jewish Theological Seminary (New York), Drew Theological Seminary (Madison, N. J.), St. Joseph's Theological Seminary (Yonkers, N. Y.), the New Brunswick (N. J.) Theological Seminary, and the German Theological Seminary (Bloomfield, N. J.).

**Hospitals**

Besides the Vanderbilt Clinic and the Sloane Hospital for Women the general and special hospitals of New York afford most important fields for clinical teaching. The College of Physicians and Surgeons is in close alliance with the Presbyterian Hospital (see page 228) and is strongly represented on the staff of many other institutions, and regular clinical instruction at hospitals is made a prominent feature of the program. In many of these hospitals the fourth-year students are admitted as clinical clerks to serve on the house staff.

**Other Institutions**

For the details of the work preparatory to public service offered by Yale University and Columbia University in coöperation, see page 276.

The Director of the New York School of Philanthropy is a professor in the University, and the same reciprocal advantages for students exist as in the case of the Theological Seminaries.

For a description of the equipment and uses of the Deutsches Haus, see page 111.

There are close informal relations between the University and the Hispanic Society of America, the Rockefeller Institute of Medical Re-



search, the New York Zoölogical Garden, the New York Aquarium, and the laboratories at Wood's Hole and Cold Spring Harbor. (For the Libraries of the city, see below.)

### PUBLIC LECTURES

In addition to the regular program of studies, arrangements are made for lectures before the members of the University, and in some cases before the public also. (For the list of Lectures given in 1911-12, see the Annual Report for that year.)

### THE LIBRARY

#### Collections

The Library contains about 500,000 volumes, exclusive of unbound pamphlets and duplicates, and some 35,000 German dissertations.

Among the notable special collections may be mentioned the Columbiana, 3500 titles; the Phoenix Library, consisting of 7000 volumes, the gift of Stephen Whitney Phoenix, of the Class of 1859; the Avery Architectural Library, a collection of about 23,000 volumes relating to architecture and decorative art; the Mary Queen of Scots Library, containing 550 volumes, collected and given by General J. Watts de Peyster; the collection of over 1200 volumes by and about Goethe; the Immanuel Kant collection of nearly 1000 volumes; the valuable Townsend Library of National, State, and Individual War Records; the Garden Library, deposited by the Southern Society of New York; the valuable library of The Holland Society of New York, 600 volumes, including the remarkable collection of works of Grotius; the philological library of the late Professor Mortimer Lamson Earle, given by his students and friends, consisting of some 2500 volumes; the library of Henry Livingston Thomas, late Chief Translator of the Department of State, Washington, given by his son, Dr. William S. Thomas, some 9000 volumes; the Library of the American Mathematical Society, 1500 volumes; and a collection in contemporary German literature at the Deutsches Haus. The Library is also the depository for the Reform Club of the City of New York.

#### Reading-Rooms

About 7000 carefully selected reference books and many of the most important works on all subjects, in standard editions, representing the leading authors in all literatures, are placed in the general reading-room, directly accessible to all authorized readers. On the same floor, in the north wing, is the periodical reading-room, where are shelved about 4000 bound volumes of periodicals, and where the current numbers of about 300 periodicals are displayed.

For the convenience of undergraduates of Columbia College, there has been established in Hamilton Hall a College Study. Five thousand care-



fully selected volumes have been placed in this room, as a reference library.

Connected with the stacks in which are stored the books relating especially to Philosophy, Literature, the Languages, the Sociological and Economic Sciences and History, are twenty special study rooms, open only to authorized readers, thus affording advanced students and investigators in these fields the fullest opportunity to carry on their work in quiet rooms in the immediate vicinity of the literature of the subjects under consideration. The various Science departments have special libraries in close connection with their laboratories and lecture rooms.

The Law Library, the Bryson Library of Teachers College, which is the Educational Library of the University, and the carefully selected reference libraries of Barnard College, the College of Physicians and Surgeons, the College of Pharmacy and the Deutsches Haus, are all available to officers and students of the University. Nearly all of the more private or restricted libraries of the city, such as those of the learned societies, are open to officers and to advanced students introduced by the Librarian of the University.

### Catalogues

The general catalogue of the libraries of the University is a record of all books in the possession of the University. In addition to this there are catalogues of department libraries located in department reading-rooms, and a union catalogue which is a record, by authors only, of books not possessed by the University which may be found in the Library of Congress, John Crerar Library, and other libraries. The catalogue of the New York Public Library in the Library building, 42nd St. and 5th Avenue, may also be consulted, especially for references to articles in magazines not indexed in the published indexes to periodicals.

### Use

All officers, students, and graduates of the University have free access to the Library and may draw books for home use. For further information, consult the *Reader's Manual*, 1911-12.

Officers of New York University, of the College of the City of New York, of the Normal College, of the Metropolitan Museum of Art, of the American Museum of Natural History and principals and heads of departments of the New York High Schools are granted the same Library privileges as are extended to graduates of Columbia University.

Persons of mature years desiring to engage in definite research which cannot be successfully conducted in the public or other libraries of this city will be given the privilege of using this library in the building, upon filing a satisfactory application, responsibly endorsed. Blank applications will be furnished by the Librarian on request.

The Library is open each week-day (except Labor Day, Thanksgiving, Christmas, New Year's Day, Good Friday, and Independence Day) from 8.30 A.M. until 11 P.M., October-June; and until 10 P.M., July-September.

#### UNIVERSITY PRESS BOOKSTORE

A University bookstore is maintained under the auspices of the Columbia University Press, where officers and students may purchase books and stationery at stated discounts from list prices.

#### THE GYMNASIUM

(See page 149)

#### UNIVERSITY COMMONS

The University Commons, in University Hall, conducted under student management, has accommodations for 450 men, upon a system combining the *table d'hôte* and *à la carte*, the average weekly charge being \$4.50. There is also a large buffet lunch-room.

#### RESIDENCE HALLS

##### For Men

There are two University dormitories on South Field, with accommodations for 500 men, Hartley Hall, a memorial to the late Marcellus Hartley, and Livingston Hall, named in memory of Robert R. Livingston, of the Class of 1765. Each building is 10 stories in height exclusive of basement, and 137 feet long by 60 feet wide. They are lighted by electricity and heated by steam, and have telephone and elevator service.

The two halls contain 600 rooms, both single and double, all being outside rooms; their arrangement permits of flexibility in renting the rooms in suites. The average size of the bedrooms is 8 feet by 14.6, of the studies 10 by 14.6; all are nine feet high. Each bedroom has a clothes-closet and an enamelled basin with hot and cold water, and is provided with heavy oak furniture. There are four shower-baths on each floor.

The only entrance to each building for students is on the side facing the campus, and leads directly into an assembly room 60 feet square. This room runs up through two stories and has a large open fireplace opposite the entrance.

The Residence Halls are not supervised and controlled by a Council composed of the Consulting Engineer, two University officers, and a representative from each hall. The Council is assisted by two Committees made up of residents in the Halls.

While Hartley Hall and Livingston Hall are open to all male students of the University, students in Columbia College, in accordance with the desire of the donors, Mrs. Helen Hartley Jenkins and Marcellus Hartley Dodge, '03, are given the preference in the assignment of rooms in Hartley Hall.

The average weekly charge for a single room is \$3.30, or \$129 for the academic year of thirty-nine weeks. A pamphlet containing floor-plans, charges, and the Hall Regulations may be had upon application to the Secretary of the University. Rooms will be assigned in the order of receipt of written applications to be made on a blank provided by the Superintendent of Buildings and Grounds.

A Third Dormitory for men, Furnald Hall, in process of construction, will be ready for occupation in September, 1913. Furnald Hall was provided for in the will of the late Francis P. Furnald in memory of his son, Royal Blackler Furnald, a member of the class of 1901.

#### For Women

Brooks Hall, the hall of residence for Barnard College students, on the north side of 116th Street, accommodates 90 students. Full information in regard to the situation and cost of rooms, the advance deposit, the charge for electric light, and the residence scholarship is published in a separate pamphlet, to be had on application to the Secretary of Barnard College, or to the Mistress of Brooks Hall, Barnard College, New York City.

Whittier Hall, the dormitory building of Teachers College, is situated on Amsterdam Avenue, between 120th and 121st Streets, and has accommodations for 350 women. Inquiries regarding rooms, board, and the like, should be addressed to the House Director of Whittier Hall, 1230 Amsterdam Avenue.

#### Other Living Accommodations

Besides these dormitories, there are many good boarding-houses and apartments near the University. The careful selection, inspection, and registration of such lodgings have been undertaken, and a card-catalogue is kept at Earl Hall. Many of the Greek-letter fraternities, a list of which will be found on page 55, maintain chapter houses near the University.

#### PUBLIC WORSHIP AND RELIGIOUS WORK

St. Paul's Chapel, dedicated February 3, 1907, was the gift of Olivia Eggleston Phelps Stokes and Caroline Phelps Stokes as a memorial to their parents. The Chapel is in the form of a cross, the greatest length being 122 feet and the width at the transepts 77 feet, and has 1050 sittings.

Service, at which attendance is voluntary, is held every week-day, except Saturday and Wednesday, at noon, the period from 12 to 12.30 being set aside by the University Council for religious exercises. On Wednesday there is a vesper service at 5.10. Service on Sunday is at 4 o'clock. Organ recitals are also frequently given.

Barnard College twice a week and Teachers College daily hold separate services in their respective chapels.

### EARL HALL

Earl Hall, the home of the religious, philanthropic, and social organizations and interests of the University, is open from 8.30 A.M. to 10 P.M. daily, to all students without expense, under the direct management of the Secretary of Earl Hall, who is also Secretary of the University Young Men's Christian Association.

The building may not be used for distinctly dogmatic or denominational religious teaching, but all organizations, the objects of which are to promote the religious and philanthropic life of their student members and of the student body-at-large, have the privilege of using it for their meetings. While the social purposes of the Hall are necessarily subordinated to the other uses of the building, the Secretary desires to promote the same type of informal personal and social intercourse that prevails in a good club.

Provision for the regular meetings of student organizations is made on a day-and-hour schedule, without exclusive use of any of the rooms in the following order: societies the purpose of which is (1) primarily religious; (2) primarily philanthropic; (3) primarily literary; and (4) miscellaneous student organizations.

### MEDICAL ATTENDANCE

The University Health and Sanitary Officer, Dr. McCastline, will have direct supervision of all matters affecting the health of the student body. All cases of communicable disease occurring in homes of students must be promptly reported to him.

As University physician Dr. McCastline will hold office hours daily in Earl Hall for consultation with the students.

For those who are without local family physicians there is a Medical Visitor (Dr. D. S. D. Jessup, 542 W. 112th St.) whose duties are to render medical assistance to such officers and students as may desire it, either at their homes or elsewhere, at a remuneration to be arranged between himself and individual patients.

### STUDENT ORGANIZATIONS

The various student organizations, while self-governing, are subject to the following regulations: The schedules of public contests and performances must be approved by a University Committee (see page 8); budgets for expenditure are approved and checked by the Comptroller of Student Organizations; the University Committee on Athletics, consisting of three graduates, two students, and two University officers, adopt and administer rules of eligibility not involving questions of scholarship and govern participation in intercollegiate athletics. Provision is made for the election each year by the student body-at-large of a Board of Student Representatives. The constitution of this board will be found in the



pamphlet on Student Organizations, which may be obtained from the Secretary of the University. The members for the current year are:

Student Board

C. E. MEISSNER, *Chairman*

A. W. BISSELL

W. M. CAMPBELL

E. H. DOWNES

S. JAGUES

R. C. KLUGESCHIED

F. J. LATENSER

W. R. MOHR

G. S. SHIBLEY

Greek Letter Fraternities

The following Greek-letter fraternities, given in the order of their establishment, maintain chapters at Columbia University:

Alpha Delta Phi; Psi Upsilon; Delta Phi; Delta Psi; Phi Kappa Sigma; Phi Gamma Delta; Phi Kappa Psi; Delta Kappa Epsilon; Zeta Psi; Beta Theta Pi; Delta Tau Delta; Theta Delta Chi; Phi Delta Theta; Delta Upsilon; Sigma Chi; Sigma Alpha Epsilon; Phi Sigma Kappa; Theta XI; Alpha Chi Rho; Phi Epsilon Pi; Sigma Nu; Alpha Sigma Phi; Zeta Beta Tau.



## DIVISIONAL AND DEPARTMENTAL STATEMENTS

### INTRODUCTORY

The courses of instruction are numbered in accordance with a plan uniform throughout the University, and attention is called to the following information which the number assigned to a course will in each case indicate:

Odd numbers indicate the first, even numbers the second-half of the academic year. Courses designated 1-2, 21-22, etc., run through both half-years; courses designated 1-4, 5-8, etc., run through two complete academic years. Courses numbered between 1 and 100 are, in general, elementary and may not be offered in fulfilment of the requirements for the higher degrees (A.M. and Ph.D.). Courses numbered from 101-200 are primarily for students who hold a first degree but are open to undergraduates who have completed 64 points (for courses in law 94 points), including all prescribed work. In general no such course may be taken without some elementary training in the same or in some allied subject. Courses from 201-300 are restricted to such graduate students as are qualified to pursue the work to advantage. Seminars are numbered from 301 up. Attention is called to the *Announcement of the Faculties of Political Science, Philosophy, and Pure Science*, and particularly to the fact that the requirements for the higher degrees are based upon subjects and not upon courses. Students should consult the officers of instruction and administration concerned with regard to their selection of courses before registration.

Courses enclosed in brackets are not offered during 1912-13, and any other course not applied for by at least three candidates for a degree may be withdrawn by the instructor.

Any subject of study not appearing in its alphabetical order may be found through the index.

With the exception of the courses in mines, engineering, chemistry, medicine, and law, all courses numbered over 101 are open to women upon the same terms as to men, unless specific statement is made to the contrary.

Unless otherwise stated, the number of hours given indicates the hours of classroom work (lectures, conferences, and recitations) per week. When a course involves both classroom work and laboratory or drafting-room work, the former will be indicated by *C* and the latter by *L* and *D*, respectively. In courses in medicine, *D* indicates demonstrations. An "afternoon" implies three hours a day, normally from 1 : 00 to 4 : 00.

Students should note the distinction between a department and a school. For instance, there is in the University both a Department of Architecture and a School of Architecture; Departments of Civil, Electrical, and Mechanical Engineering and a School of Engineering. The Departmental Statements which follow have to do only with the giving of the instruction and the opportunities for research in each special branch of study. The information as to the conditions of admission to the courses, and the academic credit to be received therefor, will be found under the information relating to Colleges and Schools, pages 190, *et seq.*, and in the separately printed *Announcements*.

For the courses to be offered in fulfilment of the requirements for the degrees of Bachelor of Arts or Bachelor of Science, see page 193; Bachelor of Laws, see page 212; Doctor of Medicine, see page 232; for the several degrees in mining, engineering, and chemistry, see pages 245-247; and for Fine Arts—architecture, music, and design—see pages 322, 325, and 327.

It is not possible, within the limits of this volume, to give more than the briefest outline of the courses. In some of the *Bulletins of Information* published by the University, and distributed without charge upon application to the Secretary, a detailed statement will be found of the scope of each course, the manner of treatment, the courses prerequisite, and the like. A list of the *Bulletins* will be found on page 491.

### Anatomy

*Professor:* HUNTINGTON (*Executive Officer*)

*Associate Professor:* SCHULTE

*Assistant Professor:* GALLAUDET

*Associate:* TILNEY

*Instructors:* BROWN (A. J.), DERBY, MILLER (A. M.), ST. JOHN, SHARP, STRONG, and VAUGHAN

### Courses

*See introductory paragraphs, page 56*

51-52—Vertebrate morphology—Anatomy of the body cavities—Visceral and topographical course—Thorax and abdomen. Lectures combined with demonstrations. 3 hours. Professor HUNTINGTON

53—Cranial morphology—Lectures. 1 hour. Dr. TILNEY

54—Syndesmology, myology, angiology of head and neck, peripheral nervous system of neck. Demonstrations 1 hour. Professor GALLAUDET

55-56—Demonstrations—Osteology, syndesmology, myology, peripheral nervous system, and angiology of the extremities, pharynx, larynx. 2 hours. Drs. BROWN and DERBY

Direct connection with laboratory course in dissection, 57-58

57-58—Laboratory course—Dissection of the human body. 12 hours. Professors HUNTINGTON, GALLAUDET, SCHULTE, and staff

59-60—Laboratory course—Dissection of the human body. 10 hours. Professors HUNTINGTON, GALLAUDET, SCHULTE, and staff

63-64—Demonstrations and conferences—Visceral anatomy. Direct examination and demonstration of the preparations serving to illustrate course 51-52. 1 hour. Dr. ST. JOHN

65-66—Neurology. 2 hours. Drs. TILNEY and STRONG

67-68—Histology and embryology—Lectures and demonstrations. 3 hours. Professor SCHULTE

69-70—Histology and embryology, laboratory course. 6 hours. Professor SCHULTE, Mr. MILLER, and Drs. STRONG and SHARP

71-72—Histology and embryology. Conferences and demonstrations. 1 hour. Professor SCHULTE, Mr. MILLER, and Drs. STRONG and SHARP

#### Research

117-118—The laboratory of animal morphology is open for research, under the direction of the professor, to advanced workers. Professors HUNTINGTON, SCHULTE, and staff

#### Optional Courses

62—Anatomy of mouth, larynx, pharynx, auditory apparatus. 3 hours. Professor GALLAUDET

125-126—Development and comparative anatomy of the heart and vascular system. Professors HUNTINGTON, SCHULTE, and staff

127-128—Development and comparative anatomy of the genito-urinary system. Professors HUNTINGTON, SCHULTE, and staff

129-130—Development and comparative anatomy of the respiratory tract. Professors HUNTINGTON, SCHULTE, and staff

131-132—Development and comparative anatomy of the nervous system. Professors HUNTINGTON, SCHULTE, and staff

133-134—Development and comparative anatomy of the alimentary canal. Professors HUNTINGTON, SCHULTE, and staff

The work in morphology is designed for laboratory exercises of at least two continuous hours, at any one exercise, supplemented in certain courses by demonstration and study of material in the Museum of Human and Comparative Anatomy and the departmental collections.

The time required for the above courses, if offered as minors for the degree of A.M. or Ph.D., or if taken as optionals, unless otherwise specified, is half a day per week from October to April.

The demands on laboratory space and teaching force render it necessary to limit the number of candidates admitted to these courses.

#### Anatomical Laboratories

The laboratory facilities of the department are very complete. The large general dissecting-room accommodates from 390 to 546 students, working in groups of five or seven at one table.

The laboratory for advanced morphological research occupies the third story of the anatomical building. Every facility for advanced and research work in morphology is here extended. The established connections of the department furnish abundant human and comparative material, both mature and embryonal. The private library of the Professor of Anatomy is at the disposal of advanced workers.

#### Museum of Human and Comparative Anatomy

Much work has been done in the formation of a Museum of Human and Comparative Anatomy, the ultimate design of which is to present, in as complete a manner as possible, a view of the evolution of the forms of animal life, and of their natural relations both in series of natural groups and in the comparative and relative positions of organs and systems. The collection, both as regards groups and the individual preparations, is designed for the illustration of both elementary and advanced courses.

The second floor of the anatomical building has been furnished throughout with suitable exhibition and demonstration stands. It is the intention of the department to install in this space the portion of the collection most used in the medical courses, thus establishing an undergraduate teaching museum which will both increase the efficiency of the sectional demonstrations and render the material upon which they are based available at all times for study and research.

A study-collection of human osteological preparations is so administered as to enable every student to take out the different osteological series and retain them for private study as long as required.

#### Anthropology

*Professors:* BOAS (*Executive Officer*), FARRAND, and SAVILLE

*Lecturers:* FRACHTENBERG and GOLDENWEISER

#### Courses

*See introductory paragraphs, page 56*

1-2—General introductory course. 3 hours. First half-year, Professor FARRAND; second half-year, Professor BOAS

104—Prehistoric archaeology. 2 hours. Professor SAVILLE

105-106—Ethnology—Primitive culture. 2 hours. Professor FARRAND

[107-108—Ethnography of America and Siberia. 2 hours. Professor BOAS]

[109-110—Ethnography of Africa and Polynesia. Professor BOAS]

111-112—Ethnography of Europe. 2 hours. Professor BOAS

115-116—Mexican archaeology. 2 hours. Professor SAVILLE

117-118—Archaeology of northwestern South America. 2 hours. Professor SAVILLE



- 121-122—Anthropometry. *C* 2 hours, *L* 3 hours. Professor BOAS  
 127-128—American languages, Introductory course. 2 hours. Professor BOAS  
 129-130—American languages—Advanced course. 2 hours. Professor BOAS  
 131-132—Types of primitive social organization. 2 hours. Dr. GOLDENWEISER  
 [133-134—Linguistic problems in anthropology. 2 hours. Dr. FRACHTENBERG]  
 203-204—Research work in anthropology. Professors BOAS, FARRAND, and SAVILLE  
 301-302—Seminar in ethnology. 2 hours bi-weekly. Professor BOAS  
 The collections and apparatus of the American Museum of Natural History may be used by students of anthropology.

#### Summer Session

- s1—General introduction. 2 points. Dr. GOLDENWEISER  
 s102—Problems and methods. 2 points. Dr. GOLDENWEISER

#### Architecture

*Professors:* HAMLIN (A. D. F.), LORD (A. W.) (*Executive Officer*), and SHERMAN (F. D.)  
*Assistant Professors:* HARRIMAN and WARREN  
*Associates:* PRÉVOT, WARE and VAN PELT  
*Curator:* BACH  
*Lecturer:* FORD

#### Courses

*See introductory paragraphs, page 56*

Unless otherwise indicated, all courses in this outline numbered below 100 are prescribed. Those which may be chosen as electives are marked with (\*).

- 1-2—The elements of architecture. 1 hour lecture and work in drafting room. The orders and their applications. Mr. FLANAGAN  
 5—Shades and shadows, projections and intersections. *C* 3 hours, *D* 2 hours. Professor SHERMAN  
 6—Descriptive geometry. *C* 5 hours, *D* 4 hours, 24 plates required. Professor SHERMAN  
 7—Perspective. *C* 2 hours, *D* 2 hours. Professor SHERMAN  
 8—Stereotomy. *C* 1 hour, *D* 2 hours. Professor SHERMAN  
 13-14—Building materials. *C* 2 hours. Professor WARREN  
 15-16—Structural design. *C* 2 hours, *D* 6 hours in alternate weeks. Professor WARREN  
 21-22—Ancient and medieval architecture. 1 hour lecture. Professor HAMLIN. (Alternating with A 23-24)



23-24—Renaissance, modern and oriental architecture. (Alternating with A 21-22. Not given in 1912-1913)

32—History of ancient ornament. 1 hour. Professor HAMLIN

33-34—History of mediaeval ornament. 1 hour, with exercises in decorative design. Professor HAMLIN

35-36—Modern ornament. 1 hour lecture. Professor HAMLIN

51 to 58—Theory of architecture. 1 hour lecture throughout four years. The abstract principles governing architectural composition. Professor LORD

61-62—Elementary design. Major and minor problems, second year. Professor LORD, Mr. PRÉVOT, Mr. WARE

63-64—Intermediate design. Major and minor problems, third year. Professor LORD, Mr. PRÉVOT, Mr. WARE

65-66—Advanced design. Major and minor problems, and a final or thesis problem, fourth year. Professor LORD, Mr. PRÉVOT, Mr. WARE

71 to 78—Drawing. 4 hours weekly throughout four years. Freehand drawing and water colors from the cast, still-life and living model. Professor HARRIMAN

\*72a, 74a, 76a—Summer work. Sketches, essays or office work during vacation following the first, second and third year of attendance. Mr. BACH

81-82—Civic design. 2 hours lectures. Stated lectures, reports, problems, and special investigations in city planning. Mr. FORD

115-116—Advanced construction. Problems in structural design, with accompanying details and specifications.

\*121-122—Ancient architecture. 2 hours lectures. Professor HAMLIN

\*122a—Ancient research. 12 to 15 hours in library and drafting-room for five weeks of second half-year, or 4 to 5 hours throughout the year. Professor HAMLIN and Mr. BACH

\*123-124—Medieval architecture. 2 hours lectures. Professor HAMLIN

\*124a—Medieval research. 12 to 15 hours in library and drafting-room for five weeks of second half-year, or 4 to 5 throughout the year. Professor HAMLIN and Mr. BACH

\*125-126—Renaissance and modern architecture. 2 hours. Professor HAMLIN

\*126a—Modern research. 12 to 15 hours in library and drafting-room for five weeks of second half-year, or 4 to 5 hours throughout the year. Professor HAMLIN and Mr. BACH

128a—Graduate research.

Four essays upon subjects selected by the student and approved by the Professor of the History of Architecture, involving original research and study in the library and the Metropolitan Museum of Art, to the extent approximately 10 hours per week through the year.

Counted as two full courses towards the higher degrees and may be taken as a minor therefor.

\*153-154—Theory and practice of decorative arts. 1 hour. Mr. BACH

161-162—Graduate design. Major and minor problems. Professor LORD, Mr. PRÉVOT, Mr. WARE

#### Summer Session

sF—Freehand drawing. 3 hours lectures and 15 hours drafting room work per week. 2 points. Mr. INGLE.

s1-2—Elements of architecture. Study of the five orders. 3 hours lectures and 18 hours drafting-room work. 3 points. Professor HARRIMAN

s2a—Applied elements. 1 hour lecture and 20 hours drafting per week. 3 points. Mr. L. E. SMITH

s3—Architectural drawing and rendering. 20 hours drafting-room work per week. 3 points. Professor HARRIMAN

s5—Shades and shadows. 8 hours lectures and 6 hours drafting per week. 3 points. Mr. INGLE

s7—Perspective. 6 hours lectures and 6 hours drafting-room work per week. 3 points. Mr. INGLE

s11-12—Specifications. 5 hours lectures per week and 12 practical problems. 3 points. Professor WARREN

s15-16—Structural design. 5 hours lectures per week and 15 practical problems. 3 points. Professor WARREN

s31-32—History of ancient ornament. 5 hours lectures per week. 2 points. Mr. BACH

s53—Theory and practice of decorative arts. 3 hours lectures per week. 2 points. Mr. BACH

#### Extension Teaching

eW1—Freehand drawing. Mr. BEANS.

eX1-X2—Elements and applications of algebra, geometry, and trigonometry. Mr. FRAZEE

e Z1- Z2—Mechanics applied to construction. 2 points. Professor BURNSIDE

e1a-2a—The elements of architecture. 2 points. Professor HARRIMAN

e2—Applied elements. 2 points. Professor HARRIMAN

e5—Shades and shadows. 4 points. Mr. INGLE

e6—Perspective. 4 points. Mr. INGLE

e9-10—Descriptive geometry. 4 points. Professor HARRIMAN

e13-14—Building materials. 2 points each half-year. Mr. HINDERMYER

e15-16—Structural design. 2 points each half-year. Professor WARREN

- e21-22—Ancient and medieval architecture. 1 point each half-year. Mr. R. F. BACH
- e23-24—Renaissance, modern and oriental architecture. 1 point each half-year. Mr. R. F. BACH
- e31-32—History of ancient ornament. 1 point each half-year. Mr. R. F. BACH
- e61-62—Elementary design. 15 hours. Mr. PRÉVÔT
- e65-66—Advanced design. 20 hours. Mr. PRÉVÔT

### Astronomy

*Professor:* JACOBY (*Executive officer*)

*Assistant Professor:* MITCHELL (S. A.)

#### Courses

*See introductory paragraphs, page 56*

1-2—General astronomy—Introductory course. 2 hours, and fortnightly evening attendance in the Wilde Observatory. Professor JACOBY

3-4—General astronomy, second course. 3 hours. Professor MITCHELL (not given 1912-13)

103-104—Spherical and practical astronomy—A more mathematical treatment, including practical use of instruments. 2 hours, and 2 hours' observatory. Professor JACOBY

105—Geodesy—Brief history of geodetic operations and description of instruments, including their adjustment and use. 3 hours. Professor JACOBY

106—Geodesy and practical astronomy. 1 hour, and 3 hours' laboratory. Professor JACOBY and assistant

5107—Geodesy—Summer course in practical geodesy. Five weeks of practical work in the field. Professors JACOBY and MITCHELL with assistants

201-202—Advanced spherical and practical astronomy. 2 hours, and 4 hours' observatory work for two years. Professor JACOBY

205-206—Reduction of photographic star plates. 1 hour, with practical work, for two years. Professor JACOBY

207-208—Method of least squares, with applications to astronomy and geodesy. 1 hour. Professor JACOBY (not given 1912-13)

213-214—Theoretical astrophysics. 2 hours. Professor MITCHELL (not given 1912-13)

#### Astronomical and Geodetic Equipment

The Wilde Observatory contains an equatorial telescope, with clock-work and accessories. The University has also a very complete collection of instruments for the application of astronomy to geodesy, including a Bamberg universal combined prismatic transit and zenith

telescope of 4-inch aperture; a Wanschaff zenith telescope of 8-cm. aperture, suitable for latitude measures of the highest precision; two Wanschaff 8-inch microscope theodolites; two Fauth 8- and 10-inch microscope theodolites; secondary bar base and tape base apparatus, with stretching machines; complete outfit of engineer's instruments, sextants, apparatus for barometric hypsometry, clocks, chronometers, electric chronographs, etc.; five computing machines.

For the advanced study of astronomy proper, there are special facilities including two Repsold measuring machines of the latest type and a large collection of original astronomical photographs suitable for measurement and reduction. These photographs were made by Gill at the Cape of Good Hope, Rutherford at New York, Donner at Helsingfors, Henry at Paris, Campbell at Mt. Hamilton, etc. Funds are provided for the publication of researches in astronomical photography. (See University Bibliography.) For research work in astrophysics students have access to the well-equipped laboratories of the Department of Physics, and there is also a collection of spectrograms photographed with the 40-inch telescope of the Yerkes Observatory and machines for measuring them.

In addition, there are a number of unmounted instruments, including Lewis Morris Rutherford's famous 13-inch equatorial, with its attachments.

The University Library is especially strong in astronomy. Among other important collections, it contains the private library of the late Dr. Otto Struve, formerly director of the Pulkowa Observatory. There is also a good working library in the department.

### Bacteriology

*Professor:* HISS (*Executive Officer*)

*Assistant Professor:* WADSWORTH

*Instructor:* DWYER

*Assistant:* MOAK

Close association is maintained between this department and the Departments of Pathology and Clinical Pathology, so as to facilitate instruction and research in these closely allied subjects.

### Courses

*See introductory paragraphs, page 56*

51—Practical instruction in bacteriology and hygiene. 4 hours.  
Professors HISS, WADSWORTH, and Drs. DWYER and MOAK

201—Special laboratory course in advanced bacteriology and bacteriological technique. Afternoons in November, December, and January.  
Professors HISS, WADSWORTH, and Dr. DWYER

203—Laboratory course—as under Course 201—with additional time for the study of known species of bacteria, their chemical products, photomicrography and original investigation. Professor HISS



## Summer Session

551—Practical course in bacteriology. 2 points. Professor WADSWORTH

## Research

Research may be pursued in the laboratories of this department by a limited number of properly qualified, advanced workers, under the direction of the Professor.

## Equipment

The Department of Bacteriology occupies the western section of the fifth floor of the north wing of the building of the College of Physicians and Surgeons. It comprises a large laboratory for the accommodation of the undergraduate and advanced classes in bacteriology, a research laboratory for special advanced workers, and rooms thoroughly equipped for the preparation of culture media and for the chemical study of bacterial products.

The laboratories are well equipped with all necessary apparatus, animal houses, and cold-storage facilities. A large collection of bacterial species is kept under cultivation.

## Biological Chemistry

## (Nutrition)

*Professor:* GIES (*Executive Officer*)

*Assistant Professor:* HOWE

*Associates:* EDDY, FOSTER, WISE, LOTHROP

*Instructors:* MOSENTHAL, SEAMAN (Teachers College) and WISE

*Assistants:* GOODRIDGE, HARKEY (Teachers College), KAHN, KNUDSON, MILLER and WICKWIRE (Teachers College)

All courses not otherwise specified are given at the College of Physicians and Surgeons.

*See introductory paragraphs, page 56*

## Organic Chemistry

51—Organic chemistry. (Introductory to Courses 101, 102, and 104 in physiological chemistry.) C 1 hour, D 1 hour, R 2 hours, L 6 hours. Professors GIES and HOWE, Drs. SMITH and GOODRIDGE, and Messrs. MILLER and KNUDSON

## Nutrition (Physiological and Pathological Chemistry)

101-102—General physiological chemistry (normal nutrition). (Teachers College, Household Arts, 25.) C 2 hours, R 1 hour and L 5 hours. Professor GIES, Dr. SEAMAN and Messrs. WICKWIRE and HARKEY

52 and 104—General physiological chemistry (normal nutrition). C 2 hours, R 1 hour, and L 6 hours. Professors GIES and HOWE, Dr. SMITH, and Messrs. MILLER and KNUDSON



106—General pathological chemistry (nutrition in disease). (Teachers College, Household Arts, 25*b*). *C* 1 hour. Professor GIES

201-202—Chemistry of nutrition. (School of Pharmacy.) *C* 1 hour. Professor GIES

203-204—General biological chemistry. *C* 1 hour, *L* 4 hours. Dr. EDDY

205-206—Advanced physiological chemistry, including methods of research in nutrition. (Teachers College, Household Arts, 125.) *C* 1 hour, *L* 5 hours. Professor GIES and Dr. SEAMAN

207-208—Biochemical methods of research, including clinical methods. *C* 1 hour, *L* 7 hours. Professor GIES, Drs. LOTHROP and SMITH, and Messrs. MILLER, KNUDSON and HEPBURN

209-210—Nutrition in health and disease. *C* 2 hours. Professors GIES and HOWE, and Drs. FOSTER, MOSENTHAL, GOODRIDGE and KAHN

211-212—Nutrition in health (advanced physiological chemistry). *C* 2 hours, *L* 14 hours. Professor GIES, and Dr. LOTHROP

213-214—Nutrition in disease (general pathological chemistry). *C* 2 hours, *L* 14 hours. Professor GIES. (The course may be taken in whole or in part at Bellevue Hospital where Professor Gies is Pathological Chemist.)

215-216—Advanced physiological and pathological chemistry, including all phases of nutrition. Research. Professors GIES and HOWE.

#### Toxicological Chemistry

217-218—Effects and detection of poisons, including food preservatives and adulterants. *L* 6 hours. Professor GIES

#### Botanical Chemistry

219-220—Chemical physiology of plants. *C* 1 hour, *L* 5 hours. Professor GIES. (The course may be taken in whole or in part at the New York Botanical Garden, where Professor Gies is consulting chemist.) See Botany, page 67

#### Bacteriological Chemistry

221-222—Chemistry of micro-organisms; fermentations, putrefactions, and the action of enzymes (introduction to sanitary chemistry). *C* 1 hour, *L* 7 hours. Professor GIES

#### Sanitary Chemistry

105—Sanitary chemistry. (Teachers College, Household Arts, 26*a*.) *C* 1 hour, *L* 3 hours. Dr. SEAMAN and Miss HARKEY

#### Biochemical Seminar

301-302—The members of the teaching staff, Ph.D. candidates, and all other investigators in the department meet weekly to discuss results

of recent researches in chemical biology. The Seminar is open to all students in the University. 1 hour. Professor GIES

#### Research

Biochemical research may be conducted by advanced workers, independently or under guidance. Professor GIES consults regularly with investigators in the departmental laboratories; also in the laboratory of pathological chemistry of Bellevue Hospital and at the N. Y. Botanical Garden.

#### Summer Session

s104—General physiological chemistry (normal nutrition). 3 points. Professor GIES and Dr. SMITH

s101—General physiological chemistry (normal nutrition). (Teachers College, Household Arts, S-H. A. 25.) 3 points. Professor GIES and Dr. SEAMAN

sA—Nutrition. 2 points. Dr. FOSTER

#### Library

Professor GIES's library occupies a room adjoining the main laboratory at the medical school and is accessible, by appointment, to all workers in the Department.

#### Equipment

The headquarters of the Department of Biological Chemistry are situated at the College of Physicians and Surgeons, where eight rooms are well equipped for experimental work in biological chemistry. Two of the rooms are relatively large and will each accommodate about seventy workers at a time. Five smaller rooms are specially fitted up for experimental investigations by advanced students.

The laboratory of physiological chemistry at Teachers College is situated on the fourth floor of the Household Arts building. It contains two rooms that are fully stocked with apparatus and chemicals. The larger of these rooms will accommodate thirty-five workers at a time. The smaller room is intended for work by advanced students.

#### Biochemical Association

The Columbia University Biochemical Association holds quarterly scientific meetings, which are open to all students in the University. The association publishes the *Biochemical Bulletin*.

#### Botany

*Professors:* HARPER (*Executive Officer*) and RICHARDS

*Associate Professors:* CURTIS and MARQUETTE

*Assistant Professor:* HAZEN

*Instructors:* DARLING and LATHAM

*Research Assistant:* DODGE

*Assistants:* ALTENBURG, BOAS, FROMME, and KUNKEL

The undergraduate courses in Botany are designed to give a broad general knowledge during the first year, and to permit some specialization thereafter. Graduate courses imply the completion of the equivalent of two to three years of undergraduate work.

Certain graduate courses at the New York Botanical Garden are also given, either wholly or in part, by members of the Garden staff.

### Courses

*See introductory paragraphs, page 56*

1-2—General botany. C 2 and L 4 hours. Professor CURTIS, Dr. DARLING

3-4—Plant morphology. C 2 and L 4 hours. First half-year, algae and fungi. Second half-year, mosses and ferns. Professor HARPER

5—Forest botany. L 6 hours. Dr. DARLING

6—Economic botany. C 1, L 3 hours. Dr. DARLING

7—Growth and character of timber. C 1, L 3 hours. Professor CURTIS and Dr. DARLING

9-10—Botanical problems. Introductory to research. Professors HARPER, CURTIS and MARQUETTE

101-102—Plant physiology. C 2, L 6 hours. Professor MARQUETTE

113-114—Morphology of the higher plants. Study of the orders, including the structure and relationship of plants. Professor CURTIS and Dr. DARLING

116—Mycology. Advanced work on the morphology and physiology of fungi with special reference to forms that cause diseases of plants. Professor HARPER

117-118—Cytology. General physiology of organisms. Lectures and laboratory work upon the reproduction, irritability, and nutrition of the cell. Professor HARPER

120—Plant reactions. Lectures and demonstrations on the responses of plants to external stimuli. Professor MARQUETTE

201-208—Physiology. Lines of work dealing with various problems in plant physiology, such as the relation of structure and function, growth, the irritable mechanism of the plant, and the permanent adaptive reactions to environmental factors. Professors RICHARDS, CURTIS, and MARQUETTE

209-210—Physiology of nutrition—treated from a chemical standpoint. Professors RICHARDS and GIES

211-212—Plant pathology. Diseases induced by cryptogamic parasites, including work in culture methods. Professor HARPER, Dr. MURRILL and Dr. SEAVER

217-218—Embryology of spermatophyta. With special work during two summers. Professors CURTIS and HAZEN

219-226—Morphology. Work dealing with morphological problems

in the various groups of plants. Directed by members of the department and Botanical Garden staff

227-234—Taxonomy—Critical study of a family, genus, or other group selected from any division of the plant world. Directed by members of the Botanical Garden staff

235-238—Plant distribution. Problems dealing with regional botany or plant geography. Professor BRITTON and other members of the staff

239-240—Developmental taxonomy—Fossil ancestors of some family of plants. Dr. HOLLICK

241-242—Research on the physiology of the cell and reproduction. Professor HARPER

243-244—Plant breeding. Lectures and laboratory work upon the principles of heredity and plant genetics. Dr. SROUT

301-302—SEMINAR for the study of special topics in general physiology and the presentation of the results of investigation. Friday 4-6. Professor HARPER

CONVENTION—A botanical convention is held monthly at the library of the New York Botanical Garden, where members of the staff and students either present the results of their own work or review the progress of botanical research and publication elsewhere.

51-52—Principles of plant morphology and physiology. *C* 2, *L* 4 hours. Professor RICHARDS, Misses LATHAM and BOAS (Barnard)

53-54—General morphology and development of plants. *C* 2, *L* 4 hours. Professor HAZEN and Miss BOAS (Barnard)

55-56—Morphology and classification of spermatophytes—Study of the natural orders. *C* 1 hour, *L* 4 or 6 hours. Professor HAZEN

153—Anatomy of vascular plants. *C* 2 and a minimum of *L* 6 hours. Professor RICHARDS and Miss LATHAM (Barnard)

154—Physiology of plants from standpoint of nutrition. *C* 2 and a minimum of *L* 6 hours. Professor RICHARDS and Miss LATHAM (Barnard)

156—Physiology of plants from standpoint of growth. *C* 2 and a minimum of *L* 6 hours. Professor RICHARDS and Miss LATHAM (Barnard)

158—Structure and development of algae—Advanced course. *C* 1, *L* 6 hours. Professor HAZEN (Barnard)

159—Structure and development of fungi—Advanced course. *C* 1, *L* 6 hours. Professor RICHARDS (Barnard)

Courses 158-159 are not usually given the same year

160—Embryology and laboratory methods. Practice in methods of technique, with the study of the embryology of one or more types. *L* 8 hours with occasional lectures and outside reading. Miss LATHAM (Barnard)

161-162—Advanced physiology and morphology. Work will be arranged to suit the needs of the students. Professors RICHARDS and HAZEN, and Miss LATHAM (Barnard)



### Extension Teaching

e1-2—Nature and development of plants. 4 points. Mr. WILSON

e1a-2a—General botany. 2 points. Mr. WILSON

e3a-4a—Plant morphology. 2 points. Professor CURTIS and Mr. FROMME

e5-6—Students having completed e1-2, e1a-2a, e3a-4a, may register for e5-6. Professor HARPER

e7-8—Farm forestry. 2 points. Dr. DARLING

### Equipment

The Department of Botany occupies the third floor of Schermerhorn, and the laboratories and lecture-rooms are well equipped with apparatus and material for morphological and physiological work.

Similar opportunities are offered to women in the laboratories at Barnard College.

Special laboratories are devoted to work in general and cellular physiology and are provided with micro-photographic equipment and a Zeiss ultraviolet microscope. All necessary apparatus and reagents are available for general histological and cytological work. Provision is also made for work on the metabolism of cells and their reactions to physical stimuli. The equipment includes apparatus for the study of the effects of various thermal, light, and gravitational stimuli on protoplasmic activities, a photometer and electrical measuring instruments such as a delicate d'Arsonval galvanometer, millimeters, resistance measuring instruments, etc., for the study of electro-physiological problems.

A greenhouse connected with a small laboratory and dark room and equipped with a considerable amount of physiological apparatus affords facilities for experimental work in physiology and pathology and provides living material under the most favorable conditions for all instructional courses. A culture room with modern equipment for growing the fungi and algae in pure cultures is also available.

Under agreement with the University the Botanical Garden supplies all needed facilities for research for members of the staff and for properly accredited students. This combination of forces not only places the Department of Botany within reach of material, equipment and collections not otherwise available, but opens up facilities for research work under conditions that are not excelled.

The Museum of the New York Botanical Garden is located in Bronx Park, and its entire upper floor is devoted to research. The physiological and morphological laboratories occupy the western end, and the taxonomic laboratories and herbarium the eastern end. Among the special features provided are to be mentioned the dark rooms, photographic, operating, and balance room, and laboratory for physiological chemistry. Ample



opportunity for experimental work in plant breeding and in plant pathology is afforded by the open-air plantations and extensive horticultural houses.

The Columbia herbarium and the equally extensive collections of the New York Botanical Garden are housed in the large room in the east wing of the Botanical Museum. The cryptogamic collections are arranged in special rooms. The entire aggregation of collections available for students is exceptionally full in every group of plants.

The library comprises over 20,000 volumes in addition to complete sets of the important botanical journals, which now number over one hundred.

A seminar for the study of special subjects in general physiology meets weekly, and a botanical conference meets monthly where members of the staff and students present the result of their own work or review the progress of botanical research elsewhere.

### Chemistry

*Professors:* BOGERT, MORGAN (J. L. R.), SHERMAN (H. C.), SMITH (ALEXANDER) (*Executive Officer*), and WHITAKER

*Associate Professor:* REIMER

*Assistant Professors:* BEANS, FREAS, METZGER and TUCKER

*Instructors:* BARRY, BENDER, EDGAR, FISHER, ISHAM, JOUËT, KELLER, KRESS, LOGO, LOMBARD, MOORE, MURPHY, NEISH, NELSON and THOMAS

*Assistants:* CALVERT, CLARK, FINCH and HAESELER

*Laboratory Assistants:* BUSWELL, DAVIS, LOWY, MCKIRAHAN and WHITON

### Courses

General and inorganic, 1-19; 100-119; 200-219; physical, 21-39; 121-139; 220-239; organic, 40-59; 141-159; 241-259; analytical and food, 60-79; 160-179; 260-279; industrial, 80-99; 180-199; 280-299.

*See introductory paragraphs, page 56*

Courses given in Havemeyer Hall, numbered between 100 and 200, may be closed to women at the discretion of the Instructor.

**A1-A2**—General elementary chemistry. C 3 hours, L 2 hours. Dr. NEISH and Assistants

**3C-4C**—General inorganic chemistry. 2 C and 6 L. Dr. BARRY and Assistants

**3 or 4**—General inorganic chemistry. 3 recitations. Professor SMITH

**7-8**—Inorganic chemistry. C 2 hours, L second half-year only, 5 afternoons. Professor BEANS

**61 or 62**—Qualitative analysis. C 4 hours, L 5 afternoons. Professor BEANS, Dr. MOORE, Dr. EDGAR and Mr. LOMBARD

101-102—Advanced inorganic chemistry. 2 hours. Professor SMITH

103-104—Experimental inorganic chemistry. 2 C and 4 L. Professor FREAS and Dr. BARRY

107-108—Advanced inorganic chemistry, research. Professor SMITH

111—Advanced qualitative analysis. 2 L. Professor BEANS

205-206—Inorganic chemistry, research. Professors SMITH, BEANS and FREAS

207-208—Advanced inorganic chemistry, research. Original investigation and conferences. Professors SMITH and BEANS

23-24—Physical chemistry, C 2 hours, L 5 afternoons, second half-year only. Professor MORGAN

26—Physical chemistry for College students. C 3 hours. Professor MORGAN

121-122—Physical chemistry, general course. C 3 hours, L 1 afternoon, first half-year only. Professor MORGAN and assistant

221-222—Physical chemistry, research. L at least 16 hours. Professor MORGAN

225-226—Conferences on current research in physical chemistry. 2 hours per week. Professor MORGAN

233-234—Advanced physical chemistry, research. Original investigations. Professor MORGAN

65—Quantitative analysis, inorganic, short course. 3 hours, 2 afternoons. Professor METZGER and Mr. LOGO

66—Quantitative analysis, inorganic, for Mining and Metallurgical Engineers. C 3 hours, L 12. Professor METZGER and Messrs. BENDER, ISHAM and LOGO

71—Quantitative analysis, inorganic. C 2 hours, 2 afternoons. Professor METZGER and Mr. ISHAM

161-162—Quantitative analysis, inorganic. 1 lecture and L 8 hours. Professor METZGER and Mr. BENDER

163-164—Quantitative analysis. 3 hours and 4 afternoons. Professor METZGER and Messrs. BENDER and ISHAM.

167-168—Advanced inorganic analysis. C 2 hours, L 15 hours second half-year for students in the course in Chemistry who elect thesis work in this course. Professor METZGER

261-262—Quantitative analysis—Special methods, gravimetric, volumetric, and electrolytic. Conferences and laboratory work at least 16 hours. Professor METZGER

263-264—Research. Conferences and laboratory work. 20 hours. Original investigation in inorganic analysis. Professor METZGER

171—Organic and sanitary analysis. C 2 hours, and 2 afternoons. Professor SHERMAN and Mr. THOMAS

173-174—Advanced organic analysis. C 2 hours, and for students who

elect thesis work in this course; *L* second half-year, 5 afternoons. Professor SHERMAN

175—Food analysis. 2 hours and 2 afternoons. Professor SHERMAN and Mr. THOMAS

176—Chemistry of food and nutrition. 3 hours. Professor SHERMAN

178—Food chemistry—conferences. 2 hours. Professor SHERMAN

271-272—Special methods of organic analysis and food investigation. Conferences and laboratory work 12 hours. Professor SHERMAN and Mr. THOMAS

273-274—Research. Conferences and laboratory work 20 hours. Original investigation in organic analysis or food chemistry. Professor SHERMAN

41-42—Organic chemistry, elementary lecture course. 2 hours. Dr. NELSON

43-44—Organic chemistry, elementary laboratory course. 8 hours. Drs. NELSON and FISHER

49—Organic chemistry. *C* 2 hours and 3 afternoons. Drs. NELSON and FISHER

141-142—Organic chemistry. General course. 3 lectures and 2 recitation, *L* first half-year, 4 afternoons. Professor BOGERT, Drs. NELSON and FISHER

143-144—Organic chemistry. Conferences, 2 hours, and for students who elect thesis work in organic chemistry; *L* second half-year, 5 afternoons. Professor BOGERT

151-152—Advanced organic chemistry, laboratory course. Conferences, private study and laboratory work. Professor BOGERT, Drs. NELSON and FISHER

241-242—Organic chemistry, research. *L* 20 hours per week. Professor BOGERT and Dr. NELSON

243-244—Advanced organic chemistry, research. Professor BOGERT and Dr. NELSON

81-82—Industrial chemistry, general. 3 lectures. Professor WHITAKER and Mr. MURPHY

83—Industrial chemistry, advanced. 3 hours. Dr. KRESS

84—Food chemistry. 3 hours. Professor SHERMAN

88—Industrial chemistry, laboratory practice for students in chemical engineering. 3 afternoons. Professor WHITAKER, Dr. KRESS

89—Industrial chemistry, laboratory practice for students in chemistry. Special applications. 1 afternoon. Dr. KRESS

95-96—Industrial chemistry. 2 hours, and *L* 5, second half-year. Professor WHITAKER and Dr. KRESS

93-94—Electro-chemistry. 2 hours, and in the second half-year. 5 afternoons. Professor TUCKER

183-184—Industrial electro-chemistry. Lectures and short laboratory

course. 1 hour and the equivalent of 14 afternoons' laboratory work. Professor TUCKER

181 or 182—Practical electro-chemistry. 10 hours. Professor TUCKER

197—Chemical factory apparatus and machines. 5 hours. Professors WHITAKER and THOMAS

198—Chemical factory management. 3 hours. Professor WHITAKER

293-294—Industrial chemistry, research. Personal conference and L 20 hours per week for one year. Professor WHITAKER

295-296—Industrial chemistry, advanced course—Original research. Personal instruction and laboratory work. Professor WHITAKER

281-282—Electro-chemical research—Original investigations. 16 hours. Professor TUCKER

283-284—Advanced electro-chemical research. Private study and original investigations for one year. Professor TUCKER

80a—Factory inspection and summer memoir, second year. Professor WHITAKER, Dr. KRESS and Mr. MURPHY

80b—Factory inspection summer work and memoir, third year. Professor WHITAKER, Dr. KRESS and Mr. MURPHY

H199—Chemistry of bituminous materials. Lectures, demonstrations and seminars. Daily, 2 weeks, beginning December 18, and counting as a 3-hour course. Mr. HUBBARD

H200—Chemistry of bituminous materials, laboratory course. Lectures, laboratory work. Daily, 2 weeks, beginning December 18, and counting as a 3-hour course. Mr. HUBBARD

5-6—General inorganic chemistry. 5 hours. Professor REIMER, Miss KELLER, and Miss CLARK (Barnard)

41-42—Organic chemistry, elementary lecture course. C 3 hours. Professor REIMER (Barnard)

43-44—Organic chemistry, elementary laboratory course. L 6 hours. Professor REIMER (Barnard)

63—Qualitative analysis. C 3 hours, L 8 hours. Miss KELLER (Barnard)

64—Quantitative analysis. C 3 hours, L 8 hours. Miss KELLER (Barnard)

105-106—Inorganic chemistry, advanced course. C 3 hours, L 6 hours. Miss KELLER (Barnard)

301-302—Departmental seminar. 2 hours. All members of the department.

135-136—Physical chemistry. C 3. Professor MALTBY (Barnard)

[145-146—Organic chemistry, advanced course. C 3 hours, L 6 hours. Professor REIMER (Barnard)]

Journal Club. Professor REIMER and Miss KELLER. 1 hour.

#### Summer Session

sA1-2—General chemistry. 6 points. Dr. MOORE.



s3—Inorganic chemistry. 4 points.

s138—Elementary physical chemistry. Half-course. Professor MORGAN

s61 or s61a—Qualitative analysis. 6 points. Professor BEANS

s41-s42—Organic chemistry. Elementary lecture course. 2 points.

Dr. NELSON

s143-144a, b, or c—Organic chemistry, laboratory course. 6 points.

Dr. NELSON and Assistant

s161-162a or b—Quantitative analysis. 6 points. Professor METZGER

s175—Food analysis. Full course. Professor SHERMAN and Mr.

THOMAS

s176—Chemistry of food and nutrition. Full course. Professor

SHERMAN

s272, a, b, c—Problems in food chemistry or organic analysis.

6, 4, or 2 points. Professor SHERMAN and Mr. THOMAS

#### Extension Teaching

eA1-A2—General chemistry, college course. 4 points. Dr. NEISH

e3-4—General inorganic chemistry. 5 points. Dr. MOORE

e41-42—Organic chemistry, elementary lecture course. 2 points. Dr.

FISHER

#### Other Courses

For courses in Chemistry given at Teachers College and for courses in Chemistry and Physiological Chemistry given at the College of Physicians and Surgeons and at the College of Pharmacy, see the Table of Contents and the special *Announcements* of these Schools.

#### Equipment

In Havemeyer Hall the Chemical Department is provided with ample space for its museum, lecture-rooms, and laboratories.

There are five chemical lecture-rooms, all fully supplied with apparatus and instruments, the desks being equipped with pneumatic troughs, gas, pressure, exhaust, and electricity. The large chemical lecture-room on the ground floor contains 348 seats.

The Museum of General Inorganic and Organic Chemistry and of the Chemical Arts, a large room occupying the whole left wing of the ground floor, contains the elements and all their more important compounds, inorganic and organic; materials and products illustrating the chemical arts, and numerous models, pictures, and diagrams.

The new William H. Nichols Laboratories for General Inorganic Chemistry and Qualitative Analysis, together with the rooms for instructors and for research, occupy the whole of one floor of Havemeyer Hall. They are fitted up in the most modern and complete way, with all the conveniences required for instruction and investigation.

The Quantitative Laboratory has eighty-eight desks. Attached to the main laboratory is a large, well-equipped balance-room, containing



accurate balances, and special rooms, provided with apparatus for gas, water, food, and electrolytic analysis.

The Organic Laboratory has forty large desks, provided with gas, water, exhaust, and electricity, and has special rooms for balances, pressure ovens, glass-blowing and combustions.

The Laboratory of Industrial Chemistry, for the instruction of students in practical operations and the solution of problems in sanitary chemistry and hygiene, is equipped for the manufacture of pure chemicals from their raw materials on an industrial scale, with fine batteries of steam evaporators, and with steam stills, centrifugals, filter presses, crushers, and the like. It includes a dyeing laboratory with a large stock of dye-stuffs, and with the regular equipment for the practical testing of dyes, including a calico-printing machine. Connected with it is a photometer-room, containing a new and complete outfit for the practical testing of illuminants. It also includes a laboratory for chemical microscopy, newly equipped with microscopes, polarized light apparatus, camera lucidas, etc., for the practical use of the microscope in chemical operations.

A new Laboratory for Practical Electro-Chemistry has been provided. The equipment consists of special motor-dynamos, one of which furnishes direct current at low voltages to the students' desks for general electrolytic work; the other provides heavy alternating current to the electric furnace room; this room is furnished with all appliances for electric furnace work. The students' desks are fitted with special switchboards and measuring instruments, and the laboratory has been arranged for carrying on research work in all branches of electro-chemistry.

The Laboratory of Physical Chemistry is well equipped with the most recent apparatus adapted to a wide range of experimental work in the branches of heat, light, electricity, etc., as applied to chemical problems.

The Chemical Library in Havemeyer Hall is supplied with an extensive collection of chemical books and journals, and is open from 9.00 A.M. to 5.00 P.M.

The Department of Chemistry at Barnard College has laboratories well equipped with every facility for the proper study of the subjects offered. The desks have water, gas, and electricity. There is a small library of useful reference books in chemistry to which the students have free access during the entire day.

The laboratories and lecture-room of Teachers College are well equipped for illustrating the teaching of Chemistry in secondary and normal schools. In these the chemistry classes of the Horace Mann School receive their instruction, and by observation and practical work in connection with the classes the students in Education 191-192 are enabled to become familiar with the duties of a teacher of Chemistry.

### Chinese

(See p. 137)

### Civil Engineering

*Professors:* BLANCHARD, BURR (*Executive Officer*), LOVELL

*Assistant Professors:* \*BLACK, WILLIAMS

*Instructors:* DROWNE, FINCH, \*MACGREGOR and NORSWORTHY

*Assistants:* GOODWIN and PERRINE

*Lecturer in Sanitary Engineering:* D. D. JACKSON.

#### Courses

*See introductory paragraphs, page 56*

2—Theory of plane surveying. 2 hours. Professor LOVELL, Mr. FINCH and Assistants

15—Surveying practice—five weeks' field work. Professor LOVELL, Mr. FINCH, and Assistants

21—Highway engineering. 2 hours. Professor LOVELL

23—Theory of railroad surveying—for mining engineering students. 2 hours and one afternoon. Professor LOVELL and Mr. FINCH

25—Surveying practice—for civil engineering students—five weeks' field work and of free work. Professor LOVELL, Mr. FINCH, and Assistants.

26—Hydrographic surveying—combined with geodetic surveying and together requiring five weeks—for civil engineering students—two weeks' field and office work. Professor LOVELL, Mr. FINCH, and Assistants

27—Surveying practice—for mining engineering students—five weeks' field and office work. Professor LOVELL, Mr. FINCH, and Assistants

28—Railroad surveying—for mining engineering students—three weeks' field and office work. Professor LOVELL, Mr. FINCH, and Assistants

51-52—Theory of railroad surveying—for civil engineering students. 2 hours and one afternoon first half-year, 2 hours and one afternoon second half-year. Professor LOVELL and Mr. FINCH

53-54—Elasticity and resistance of materials of engineering. 5 hours lectures and recitations and two afternoons first half, 3 hours second half. Professors BURR and WILLIAMS, Mr. NORSWORTHY and Mr. BRIGGS

55—Standard methods of water analysis. 2 afternoons. Professor BLACK

57a—Statistics and interpretation of water analyses. 20 lectures. Mr. WHIPPLE

57b—Drainage of marshes and lowlands. 10 lectures. Professor BLACK

58—Masonry structures. 3 hours and one afternoon. Professor WILLIAMS

59—Sanitary treatment of water-supplies and of sewage. 2 hours and 2 afternoons in January. Professor BLACK

61—Analytical theory of trusses. 2 hours and 1 afternoon. Professor WILLIAMS

\*Absent on leave, 1912-13

62—Graphic statics—for civil engineering students. 2 hours and one afternoon. Professor WILLIAMS

64—Graphic statics—for mining engineering students. 1 hour and one afternoon. Professor WILLIAMS

71—Railroad surveying—for civil engineering students—four weeks' field and office work. Professor LOVELL, Mr. FINCH, and Assistants

75—Hydraulics—for civil engineering students. 4 hours. Mr. FINCH

76—Hydraulics—for mining engineering students. 2 hours. Mr. FINCH

77—Hydraulics—for electrical engineering students. 2 hours. Mr. FINCH

78—Hydraulics—for mechanical engineering students. 2 hours. Mr. FINCH

85—Foundations. 2 hours and 1 afternoon. Professor BURR

87-88—Design and construction of bridges, roofs, and buildings. 2 hours and 1 afternoon. Professors BURR and WILLIAMS

89-90—Railroad engineering, construction, and operation. 3 hours and 2 afternoons. Professor LOVELL and Mr. FINCH

94—Design and construction of sewers and river and harbor improvements. 2 hours. Professor BLACK

96—Principles of hygiene, sanitary science, and public health. 3 hours. Mr. JACKSON.

97—Water-supply and irrigation engineering. 2 hours. Professor BLACK and Mr. FINCH

99-100—Graduation thesis—a project or thesis on some civil engineering subject, approved by the head of the department, is required of every candidate for the degree of Civil Engineer

### Summer Courses in Surveying

These courses are conducted during fifteen weeks each summer vacation at Camp Columbia, near Litchfield, Conn., where ample facilities are provided for all requisite operations, and where the topography is admirably adapted to the practical work of surveying. The courses there given are those announced above under the numbers 15, 25, 26, 27, 28, and 71. The University issues a special pamphlet with regard to these courses, which may be had upon application to the Secretary.

### Advanced Courses

#### Highway Engineering

101—Economics and design of roads and pavements. Lectures. 2 hours. Professor BLANCHARD

102—Macadam and other roads; block and concrete pavements. Lectures, inspection trips, and reports. 3 hours. Professor BLANCHARD

103—Bituminous surfaces and bituminous pavements. Lectures, inspection trips, and reports. 3 hours. Professor BLANCHARD

104—Highway laws and systems of administration. Lectures, reading, and conferences. 2 hours. Professor BLANCHARD

105—Highway bridges and culverts. Lectures and problems in design work. 1 hour. Professor BURR and Mr. DROWNE

106—Management engineering. Lectures. 1 hour. Mr. DROWNE

107—Mechanical appliances used in highway engineering. Lectures, inspection trips, and reports. 2 hours. Mr. DROWNE

108—Road material laboratory. Lectures and laboratory work. 3 hours. Mr. DROWNE

109—Road surveying and design. Lectures, inspection trips, and design work. Daily, 2 weeks, beginning January 22 and counting as 3-hour course. Mr. DROWNE

110—Street surveying and design. Lectures, inspection trips, and design work. Daily, 2 weeks, beginning January 22 and counting as a 3-hour course. Mr. DROWNE

111—Seminar in highway engineering literature. First session. Reading and conferences. 3 hours. Professor BLANCHARD

112—Seminar in highway engineering literature. Second session. Reading and conferences. 3 hours. Professor BLANCHARD

#### Minor Subjects

153-154—Elasticity and resistance of materials

257-258—Elastic and masonry arches. Conferences with reading and design work as required. Based upon Course 58

275-276—Hydraulics (75 with additional reading)

285-286—Foundations, including theory of earth pressure (85 with additional reading)

287-288—Long-span bridges. Conferences with reading and design work as required. Based upon Courses 87-88

291-292—Railroad location—Economics of railroad location. Based on Courses 89-90

#### Major Subjects

259-260—Sanitary engineering. Based upon Courses 59, 94, 98

277-278—Hydraulic engineering, including the hydraulics of rivers and power plants and municipal water-works

289-290—The engineering of structures, including long-span bridges and deep foundations, with methods of building them, and advanced work in elasticity and resistance of materials

293-294—Railroad engineering—Design of the permanent way. Based on Courses 53-54, 75, 85, 87-88, 89-90

#### Summer Sessions

s53—Elasticity and resistance of the materials of engineering. 6 points. Professor WILLIAMS



## Extension Teaching

e1-2—Theory of plane surveying. 2 points. Mr. FINCH

eX1-X2—Theory of railroad surveying. 3 points. Mr. FINCH

## Equipment

The department possesses an unusually full equipment of engineers' and solar transits, levels, plane tables, compasses, and all accessories, as well as smaller instruments. Current meters, hook gauges, and floats of various types are also used in making observations on the flow in and discharge of rivers and canals. A complete set of sections of iron and steel shapes, models, and photographs of engineering works, together with working plans of the latter, are in the department for the use of students. The hydraulic laboratory affords opportunity for the practical operations of measuring the discharge through weirs and other orifices, the flow through open channels and closed pipes, frictional and other resistances in pipes and open channels, as well as for meter gaugings, and for general hydraulic investigations. The testing work in the mechanical laboratory includes the complete tests of various structural materials in tension, compression, bending, and torsion, including the observation and digesting of all corresponding data.

## Classical Philology

*Professors:* EGBERT, KNAPP, LODGE, MCCREA, MOORE (F. G.), PERRY, WHEELER, and YOUNG (*Executive Officer*)

*Associate Professor:* VAN HOOK

*Assistant Professors:* HIRST, LOCKWOOD

*Associate:* SHEAR

*Instructors:* CRAWFORD, DEMAREST, GUERNSEY, MESSER, STURTEVANT

*Lecturer:* GOODALE

## Columbia College

*See introductory paragraphs, page 56*

## Greek

1-2—Elementary course. 3 hours. Professor LOCKWOOD

3—Homer. Lucian. 3 hours. Professor YOUNG

4—Lucian. Plato. 3 hours. Dr. GUERNSEY

9-10—Prose composition. First course. One session weekly counting as 2 hours. Dr. GUERNSEY

11—Euripides. Sophocles. 3 hours. Professor PERRY

12—Demosthenes, *De Corona*. Aeschines. 3 hours. Dr. GUERNSEY

13—Rapid reading of Homer. 2 hours. Mr. DEMAREST

14—Rapid reading of Herodotus. 2 hours. Professor PERRY

17—New Testament, *Gospels*. 2 hours. Mr. MESSER

18—New Testament. *Epistles*. 2 hours. Professor YOUNG



29-30—Prose composition. Second course. One session weekly counting as 2 hours. Mr. DEMAREST

39-40—Prose composition. Third course. One session weekly counting as 2 hours. Professor PERRY

41-42—Greek literature. Three sessions weekly counting as 4 hours. Professor VAN HOOK

*Latin*

A1—Livy, selections. Terence. 3 hours. Professors McCREA, MOORE, Dr. GUERNSEY, Mr. CRAWFORD, Mr. DEMAREST, and Mr. MESSER

A2—Horace, *Odes* and *Satires*. Catullus. 3 hours. Professors McCREA, MOORE, LOCKWOOD, Dr. GUERNSEY, Mr. CRAWFORD, Mr. DEMAREST, and Mr. MESSER

9-10—Prose composition. First course. One session weekly counting as 2 hours. Mr. MESSER

11—Horace, *Satires* and *Epistles*. Tacitus, *Germania*. 3 hours. Professor LOCKWOOD

12—Juvenal. Martial. Pliny, *Letters*. 3 hours. Mr. MESSER

17—Petronius and Suetonius. 2 hours. Mr. CRAWFORD

18—Vergil. 2 hours. Professor McCREA

29-30—Prose composition. Second course. One session weekly counting as 2 hours. Mr. CRAWFORD

31—Roman philosophy; selections from the works of Cicero and Lucretius. 3 hours. Professor McCREA

32—Roman drama; selected plays of Plautus, Terence, and Seneca. 3 hours. Dr. STURTEVANT

39-40—Prose composition. Third course. One session weekly counting as 2 hours. Professor LOCKWOOD

41—Latin literature of the Republic. Three sessions weekly counting as 4 hours. Professor MOORE

42—Latin literature of the Empire. Three sessions weekly counting as 4 hours. Professor MOORE

*Classical Civilization*

51—Roman Life and Thought. 2 hours. Professor KNAPP

54—Greek Art. 2 hours. Professor YOUNG

Teachers College

51-52T—Latin readings. 3 hours. Professor LODGE

Barnard College

*Greek*

1-2—Elementary course. Grammar. Composition. Xenophon. Homer. 5 hours. Professor HIRST

3—Homer. Lucian. 3 hours. Professor VAN HOOK

4—Lucian. Plato. 3 hours. Professor YOUNG

9-10—Prose composition. First course. One session weekly counting as 2 hours. Dr. STURTEVANT

11—Euripides. Sophocles. 3 hours. Professor PERRY

12—Demosthenes, *De Corona*. Aeschines. 3 hours. Professor VAN HOOK

13—Rapid reading of Homer. 2 hours. Mr. DEMAREST

14—Rapid reading of Herodotus. 2 hours. Professor PERRY

15—Lucian. Xenophon. 2 hours. Dr. GUERNSEY

16—Plato. 2 hours. Mr. DEMAREST

29-30—Prose composition. Second course. One session weekly counting as 2 hours. Mr. DEMAREST

39-40—Prose composition. Third course. One session weekly counting as 2 hours. Dr. GUERNSEY

41-42—Greek literature. Three sessions weekly counting as 4 hours. Professor VAN HOOK

#### Latin

A1—Livy, selections. Terence. 3 hours. Professors MOORE, VAN HOOK, HIRST, Dr. STURTEVANT, Mr. DEMAREST, Mr. MESSER, and Miss GOODALE

A2—Horace, *Odes and Satires*. Catullus. 3 hours. Professors MOORE, VAN HOOK, HIRST, Dr. STURTEVANT, Mr. DEMAREST, Mr. MESSER, and Miss GOODALE

9-10—Prose composition. First course. One session weekly counting as 2 hours. Mr. MESSER and Miss GOODALE

11—Horace, *Satires and Epistles*. Tacitus, *Germania*. 3 hours. Dr. STURTEVANT

12—Juvenal. Martial. Pliny, *Letters*. 3 hours. Professor HIRST

17—Vergil. 2 hours. Professor HIRST

18—Apuleius. 2 hours. Professor KNAPP

29-30—Prose composition. Second course. One session weekly counting as 2 hours. Professor HIRST

31—Roman philosophy; selections from the works of Cicero and Lucretius. 3 hours. Professor MCCREA

32—Roman drama; selected plays of Plautus, Terence, and Seneca. 3 hours. Dr. STURTEVANT

39-40—Prose composition. Third course. One session weekly counting as 2 hours. Professor LOCKWOOD

41—Latin literature of the Republic. Three sessions weekly counting as 4 hours. Professor KNAPP

42—Latin literature of the Empire. Three sessions weekly counting as 4 hours. Professor KNAPP

#### Classical Civilization

51—Roman life and thought. 2 hours. Professor KNAPP

54—Greek art. 2 hours. Professor YOUNG

Teachers College

Latin 51-52T—Latin readings. 3 hours. Professor LODGE

Graduate Courses

*Greek*

203-204—Greek literature. Part II: Poetry. 2 hours. Professor WHEELER

205—Greek philosophy. Plato. 3 hours. Professor PERRY

206—Greek philosophy. Aristotle. 3 hours. Professor PERRY

207-208—Epic poetry. 3 hours. Professor WHEELER

253—Greek epigraphy. Introductory course. 2 hours. Professor PERRY

254—Greek epigraphy. Second course. 2 hours. Professor PERRY

*Latin*

201-202—Latin literature of the Republic. 2 hours. Professor McCREA

223—Italic dialects. Latin-Faliscan, Marsian, Oscan-Sabellian, Umbrian. 2 hours. Dr. STURTEVANT

225-226—Roman oratory. 3 hours. Professor MOORE

227-228—Roman drama. 3 hours. Professor LOCKWOOD

229—Prose composition. Latin idiom. 2 hours. Professor McCREA

230—Prose composition. Elements of style. 2 hours. Professor McCREA

251—Roman epigraphy. Introductory course. 2 hours. Professor EGBERT

252—Roman epigraphy. Official and sepulchral inscriptions. 2 hours. Professor EGBERT

253-254—Roman epigraphy. Advanced course. 2 hours. Professor EGBERT

Teachers College

Education 175-176—Theory and practice of teaching Latin in secondary schools—Lectures, reports, and practical work. 3 hours. Professor LODGE

201-202T—Latin conversation. 2 hours. Professor LODGE

Education 275-276—Practicum in Latin. Caesar and Vergil. 2 hours. Professor LODGE

Classical Archaeology

*Greek.*

149—Greek archaeology. Introductory course. 3 hours. Professors WHEELER and YOUNG

152—Greek archaeology. Part I: Vases. 3 hours. Professor WHEELER

255-256—Greek life. 2 hours. Professor YOUNG

257—Pausanias. 3 hours. Professor YOUNG

#### *Latin*

175-176—Topography and monuments of ancient Rome. 2 hours.  
Mr. CRAWFORD

260—Roman religion. 3 hours. Mr. CRAWFORD

#### Comparative Philology

291-292—Comparative grammar of Greek and Latin. 2 hours. Dr.  
STURTEVANT

#### Classical Proseminar

301-302—Proseminar in Greek and Latin. 2 hours. One session  
weekly. Professor KNAPP

#### Classical Seminar

303-304—Greek section. One or more plays of Sophocles. 2 hours.  
One session weekly. Professor WHEELER

305-306—Latin section. Juvenal. 2 hours. One session weekly.  
Professor KNAPP

#### Summer Session

##### *Greek*

s1—Elementary course. 4 points. Professor MACURDY

s2—Iliad. 2 points. Dr. STURTEVANT

s105—Plato. Half course. Professor MACURDY

##### *Latin*

sX—Elementary course. 2 points. Miss WYE

sXa—Elementary course. Reading and oral practice. 2 points.  
Miss WYE

s Z—Latin prose composition. 2 points. Miss WYE

sA1—Livy. 3 points. Dr. STURTEVANT

sA2—Horace. Catullus. 3 points. Professor MOORE

s9—Latin prose composition. 2 points. Professor KNAPP

s130—Lucretius. Half course. Professor LAING

s132—Cicero. Half course. Professor KNAPP

s210—Roman religion. Half course. Professor LAING

s219—Advanced Latin prose composition. Half course. Professor  
MOORE

#### Extension Teaching

##### *Latin*

eA1—Collegiate Latin. Terence, Phormio; Livy (Books XXI-XII).  
3 points. Dr. GUERNSEY

eA2—Collegiate Latin. Horace, Odes and Satires; Catullus. 3 points.  
Dr. GUERNSEY

eX1—Elementary Latin. 4 points. Miss WYE

eX2—Caesar, Nepos, and prose composition. 4 points. Miss WYE

eY1—Ovid and Vergil. 4 points. Miss WYE

eY2—Cicero and Sallust. 4 points. Miss WYE

eY3—Latin prose composition. 2 points. Miss WYE

eY4—Latin prose composition. Course eY3 repeated. 2 points.

Miss WYE

eY5-Y6—Readings in Latin literature. 2 points each half-year.

Miss WYE

### Clinical Instruction

*in Dermatology, Genito-Urinary Diseases, Laryngology, Ophthalmology, Orthopedic Surgery, and Otology. For Clinical Instruction in Medicine, Surgery, Obstetrics, Gynecology, Hydrotherapy, Neurology, and Pediatrics, details will be found under the general heading of these departments.*

*Professors:* BACON, CHAPPELL, DENIG, GIBNEY, HAYDEN, JACKSON (G. T.), KNAPP (A. H.), LEWIS, and SIMPSON

*Assistant Professor:* WHITMAN

*Instructors:* BLACKWELL, CARR, COCKS, FROTHINGHAM, GROUT, HODGSON, HOLDEN, JAEGER, KINGSLEY, McMURTRY, MICHAELIS, SAUNDERS, THURBER, TYSON, WALLACE and WHITING

*Lecturer:* ROGERS

### Clinical Assistants

*Clinical Assistants:*—*Orthopedic Surgery*—FRIEDER, KLEINBERG, WHITEBECK; *Otology*—CARR, MICHAELIS, NISSELSO; *Dermatology*—ALDRICH, DADE, FOX, GOLD, McMURTRY, RAINFORTH; *Ophthalmology*—GOODFRIEND, GROUT, SHOOK; *Laryngology*—BLUMGARTEN, COLL, HARDENBERG, KOBLE, LESHURE, OSGOOD, MYERS, SINGER, SMITH (F. C.), VAN WAGENEN, VOORHEES; *Genito-Urinary Diseases*—BANCROFT, BLANCARD, COWAN, KOHN, OWEN

### Courses

*See introductory paragraphs, page 56*

#### Dermatology

51-52—Practical instruction, diagnosis and treatment of the diseases of the skin. Vanderbilt Clinic. 10-12 lessons for each student. Dr. HODGSON

53-54—Practical clinical lectures. 16 lessons for each student. Professor JACKSON

55-56—Histo-pathology of skin diseases (optional). Dr. McMURTRY

#### Genito-Urinary Diseases

51-52—Genito-urinary and venereal diseases. Clinical lectures. Vanderbilt Clinic. 1 hour. Professor HAYDEN



53-54—Practical instruction in diagnosis and treatment. Vanderbilt Clinic. 10-12 lessons. Drs. WHITING and KINGSLEY

55—Hospital clinics. Bellevue Hospital, September to February. Professor HAYDEN

### Laryngology

51-52—Practical clinical lectures. 1 hour. Professor SIMPSON

53-54—Practical clinical instruction—Vanderbilt Clinic. 10-12 exercises. Dr. THURBER

55-56—Individual clinical demonstration—Vanderbilt Clinic. Dr. FROTHINGHAM

57-58—Practical clinical instruction—Manhattan Eye, Ear and Throat Hospital. 1 hour. Professor CHAPPELL and Dr. COCKS

### Ophthalmology

52—Clinical lectures upon the diseases of the eye. Vanderbilt Clinic. 1 hour. Professor KNAPP

53-54—Practical instruction at the Vanderbilt Clinic. 10-12 lessons for each student. Drs. HOLDEN, TYSON and GROUT

56—Hospital clinics. N. Y. Ophthalmic and Aural Institute. Professor KNAPP

### Orthopedic Surgery

51-52—Clinical lectures in orthopedic surgery and diseases of the joints. Vanderbilt Clinic. 1 hour. Professor GIBNEY

53-54—Practical instruction. 8 lessons for each student. Hospital for Ruptured and Crippled. Professor WHITMAN

55-56—Practical instruction. 8 lessons for each student. Vanderbilt Clinic. Dr. JAEGER

59-60—Operations. Hospital for Ruptured and Crippled. Professor GIBNEY

### Otology

51—Didactic instruction in pathology and therapeutic methods. 16 lectures. Professor BACON

53-54—Practical instruction in the diagnosis of the diseases of the eye. Vanderbilt Clinic. 10-12 lessons. Drs. SAUNDERS, MICHAELIS, and CARR

55-56—Operative clinics. New York Eye and Ear Infirmary. Professors BACON and LEWIS

## Comparative Literature

(See p. 99)

## Design

*For list of officers and other information see Faculty of Fine Arts*

1-2—History of art—Collateral reading and research. 4 hours. Professors ALEXANDER and DOW and Mr. E. R. SMITH

101-102—History of art—Advanced reading and research. 8 hours.  
Professors ALEXANDER and DOW and Mr. E. R. SMITH

### Diseases of Children

*Professor:* HOLT (*Executive Officer*)

*Associates:* BERG (H. W.) and LA FETRA

*Instructors:* BARTLETT, HAYNES, HERRMAN, and NORTON

*Assistants:* ABBOTT, BINGHAM, SILVER, and WILCOX

*Clinical Assistants:* WILE, SCHNEPEL, HAMILTON, GROESCHEL, REUBEN, MANNING.

### Courses

*See introductory paragraphs, page 56*

51—Clinical lectures. Vanderbilt Clinic. 1 hour. Professor HOLT

52—Didactic lectures. 1 hour. Professor HOLT

53-54—Hospital clinic—Foundling or Babies' Hospital. 3 hours.  
Professor HOLT

55-56—Examination and diagnosis of the diseases of children. Vanderbilt Clinic. 10-12 lessons. Dr. HERRMAN and assistants

57—A weekly recitation in pediatrics. Dr. BARTLETT

59-60—Bedside instruction in contagious diseases. Riverside, Willard Parker, and Scarlet Fever Hospitals. Drs. BERG and HAYNES

61-62—Practical clinical instruction—Bellevue Hospital Out-Patient Department. Drs. LA FETRA and WILCOX

### Post-Graduate Instruction

A limited number of students will be received in this department for post-graduate instruction.

No students will be admitted for less than one-half the academic year.

The instruction will include clinical work in general diagnosis and treatment of diseases of children in the wards of the Babies' and Foundling Hospitals, in the Children's Ward of Bellevue, and in the Vanderbilt Clinic, together with special instruction in contagious diseases at Willard Parker and the Scarlet Fever Hospitals, and opportunities for witnessing post-mortem examinations.

### Drafting

*Associate Professor:* MAYER (*Executive Officer*)

*Assistant Professors:* HARRINGTON and MILLER

*Instructor:* BEANS

*Assistant:* MCKINLEY

## Courses

*See introductory paragraphs, page 56*

1-2—(a) Elements of mechanical drawing; freehand lettering; (b) Projections; (c) Machine drawing—sketches, tracing; (d) Topography. 1 hour and 14 hours drafting. Professors MAYER, MILLER, HARRINGTON and Mr. BEANS

3-4—Descriptive geometry—Problems on point, line, and plane; tangent planes; intersections; developments; warped surfaces. 3 hours. Professors MAYER, MILLER and HARRINGTON and Mr. BEANS

5-6—(a) Graphics—Shades and shadows; perspective; (b) Stone-cutting. 6 hours. Professors MAYER, MILLER and HARRINGTON

7-8—(a) Structural drawing; (b) Machine drawing. 6 hours. Professors MAYER, MILLER, and HARRINGTON

## Summer Session

sr-2—Mechanical drafting. 3 points. Professor MAYER

ss-4—Descriptive geometry. 2 points. Professor MAYER

ss-6 and 7-8—Advanced mechanical drafting. 3 points. Professor MAYER

## Extension Teaching

er-2—Mechanical drafting. 2½ points. Professor HARRINGTON.

es-4—Descriptive geometry. 2 points. Professor HARRINGTON.

es-5—Graphics. 3 points. Professor HARRINGTON

es-8—Specialized engineering drafting. (a) Structural drafting. (b) Machine drafting. 3 points. Professor HARRINGTON

## Economical and Social Science

*Professors:* CLARK,<sup>1</sup> DEVINE, GIDDINGS, LINDSAY, MOORE (H. L.), SEAGER, and SELIGMAN (*Executive Officer*)

*Associate Professors:* CHADDOCK, MUSSEY and SIMKHOVITCH (V. G.)

*Assistant Professors:* AGGER and TENNEY

*Associates:* BAYLES and SIMKHOVITCH (M. K.)

*Instructors:* ANDERSON and HAIG

*Lecturers:* DANIELS and FETTER

*Assistants:* BRANDT, SHENTON and WHITIN

## Political Economy and Finance

*See introductory paragraphs, page 56*

A1-A2—Outlines of economics—Practical economic problems. Recitations, lectures, and essays. 3 hours. Professors MUSSEY and AGGER, and Dr. ANDERSON (Barnard College)

1-2—Introduction to economics—Practical economic problems. 3 hours. Professors SEAGER, MUSSEY, AGGER, and Dr. ANDERSON.

<sup>1</sup> Absent on leave.

3-4—Money and banking. 2 hours. Professor AGGER

101—Science of finance—I: Public revenues. 2 hours. Professor SELIGMAN. Not given in 1912-13

102—Science of finance—II: Public expenditures, public debts, and the budget. 2 hours. Professor SELIGMAN. Not given in 1912-13

104—Commerce and commercial policy. 2 hours. Professor MUSSEY

105—The labor problem. 2 hours. Professor SEAGER

This course is also given at Barnard College as a three-hour (four-point) course (117)

106—The trust and corporation problem. 2 hours. Professor SEAGER

107—Fiscal and industrial history of the United States. 2 hours. Professor SELIGMAN. Not given in 1912-13.

108—Railroad problems, economic, social and legal. 2 hours. Professor SELIGMAN. Not given in 1912-13.

109—History of socialism. 2 hours. Professor SIMKHOVITCH

114—Marx and post-Marxian socialism. 2 hours. Professor SIMKHOVITCH

117—Economic History. 2 hours. Professor SIMKHOVITCH

121—Public finance. 2 hours. Professor DANIELS

201—Economic readings—I: Classical English economists. 2 hours. Professor SEAGER

202—Economic readings.—II: Contemporary economists. 2 hours. Professor SEAGER

[203—History of economics to Adam Smith. 2 hours. Professor SELIGMAN]

[204—History of economics since Adam Smith. 2 hours. Professor SELIGMAN]

205—Economic theory. Conditions of economic progress. 2 hours. Professor CLARK and Dr. ANDERSON

207—Principles and methods of statistics. 2 hours. Professor CHADDOCK

210—Social statistics. 2 hours. Professor CHADDOCK

211—Statistical economics. I. 2 hours. Professor H. L. MOORE

212—Statistical economics. II. 2 hours. Professor H. L. MOORE

220—Economic theory: recent criticism and its positive results. 2 hours. Professor FETTER

242—Radicalism and social reform as reflected in the literature of the nineteenth century. 2 hours. Professor SIMKHOVITCH

301—Seminar in political economy and finance. 2 hours. Professor SEAGER

302—Seminar in political economy and finance. 2 hours. Professors SEAGER and FETTER

303—Seminar in political economy and finance. 2 hours. Professors SIMKHOVITCH and MUSSEY

304—Seminar in political economy and finance. 2 hours. Professors SIMKHOVITCH and MUSSEY

#### Summer Session

sX1-X2—Elementary bookkeeping. 2 points. Mr. KOOPMAN

s1—Introduction to economics. 3 points. Professor AGGER

s105—The labor problem. Professor McCREA

s110—Economic and social reform. Professor McCREA

s112—Money and Banking. 2 points. Professor AGGER

s201—Modern economic theories. Professor CHADDOCK

s120—Corporation finance. 2 points. Dr. ANDERSON

s210—Standard of living and public health. Professor CHADDOCK

#### Sociology and Statistics

151—Principles of sociology: analytical and descriptive. 2 hours. Professor TENNEY

152—Principles of sociology: historical. 2 hours. Professor TENNEY

251—Social evolution: ethnic and civil origins. 2 hours. Professor GIDDINGS

252—Social evolution: civilization, liberty, and democracy. 2 hours. Professor GIDDINGS

255—Principles and methods of statistics—Lectures and laboratory. 2 hours. Professor CHADDOCK

256—Social statistics—Lectures and laboratory. 2 hours. Professor CHADDOCK

257—Historical types of society, ancient: the theory of progress. 2 hours. Professor GIDDINGS

258—Historical types of society, modern: the theory of progress. 2 hours. Professor GIDDINGS

259—Ecclesiology. 1 hour. Dr. BAYLES

261—Primitive institutions, Paganism and Christianity. Professor SHOTWELL

311—General seminar. Sociological theory: historical. 2 hours. Professors GIDDINGS and TENNEY

312—General seminar. Sociological theory: systematic. 2 hours. Professors GIDDINGS and TENNEY

315—Seminar in modern problems of social evolution. 2 hours. Professor TENNEY

316—Modern problems in social evolution. Professor TENNEY

317—Advanced seminar. Problems and methods of sociological research. 2 hours. Professor GIDDINGS

318—Advanced seminar. Dissertations in preparation. 2 hours. Professor GIDDINGS

319-320—The relation of social theory to public policy. 2 hours. Professor GIDDINGS



### Equipment

The Library facilities are unexcelled. Every journal of importance, American or foreign, dealing with economics or social science, is taken regularly by the Library. Any book needed by advanced students can usually be bought at once. The special library of history and political science alone comprises more than eighty thousand volumes.

Students of economics and social science will find in New York unrivaled library facilities. In addition to the University Library, there are the New York Public Library on the Astor, Lenox, and Tilden foundation, New York Historical Library, Long Island Historical Library, Library of the New York School of Philanthropy, the Bar Association Library, and the Law Institute Library, to each of which students have access under favorable conditions. Advanced students also have at their disposal the library of the McVickar Professor of Political Economy which contains an important collection of works on earlier economics.

The facilities offered to students of sociology and social economy include a large library of general and special works, on sociological theory, the history of the family, pauperism, crime, and penology. Arrangements have been made with the Charity Organization Society, the State Charities Aid Association, the University Settlement, the East-Side House, and the Brooklyn Bureau of Charities by which students can become fully acquainted with actual work among the people and with the most perfect methods.

The Statistical Laboratory, conducted by Professor H. L. Moore, is equipped with the Hollerith tabulating machines, comptometers, and all other modern facilities.

Students also have the privilege of attending all of the courses in the School of Philanthropy conducted by the Charity Organization Society.

### Education

The School of Education of Teachers College is the Division of Education of Columbia University. In the section of the Catalogue devoted to Teachers College (see Table of Contents) will be found a list of its officers and a statement of its equipment for instruction and research in education.

All Teachers College courses are open to men and women on equal terms. For the significance of course numbers see page 56.

*A full statement of the nature of each of the following courses, the work prerequisite to it, and the credit which may be received for it in partial fulfillment of the requirements for the several degrees and diplomas, and similar statements concerning nearly 200 semi-professional courses offered by the School of Education of Teachers College, but not listed here, will be found in the current edition of the Announcement of the School of Education of Teachers College.*

## History of Education

**B**—History and principles of education. 3 hours. Professors MONROE, SUZZALLO, GOODSELL, KILPATRICK, and LAVELL

**B** (*a* and *b*)—History of education—Special sections for students in Household and Industrial Arts. 2 hours

**Ba**—History of education to modern times. 1 hour. Professor KILPATRICK

**103-104**—Educational theories of Herbart and Froebel. 2 hours. Professor KILPATRICK

**[109-110]**—Social and philosophical foundations of Greek and Roman education. 2 hours.]

**201-202**—History of education—Special graduate section of course **B**, above. 2 hours. Professors MONROE and KILPATRICK

**201A-202A**—History of education. 2 hours. Professors MONROE and KILPATRICK

**[203-204]**—Practicum—History of education in the United States. 2 hours. Professor MONROE]

**[203A-204A]**—Practicum—History of education in England. Professor MONROE]

**303-304**—Seminar—The historical foundations of modern education. Professor MONROE

## Philosophy of Education

**B** (*c*)—Principles of education. 1 hour. Professor SUZZALLO

**5**—Logic as applied to problems of teaching. 2 hours. Professor DEWEY

**[7]**—Social life and the school curriculum. 2 hours. Professor DEWEY]

**105-106**—Philosophy of education. 2 hours. Professor MACVANNEL

**107-108**—Educational sociology. 2 hours. Professor SUZZALLO

**205-206**—Practicum—Philosophy of education. 2 hours. Professor MACVANNEL

**207-208**—Practicum—Educational Sociology. 2 hours. Professor SUZZALLO

**209-210**—Practicum—Historic relations of philosophy and education. 2 hours. Professor DEWEY

**305-306**—Seminar—Philosophy and sociology of education. Professors MACVANNEL, DEWEY, and SUZZALLO

## Educational Administration

**111-112**—School administration. 2 hours. Professor DUTTON

**113**—Comparative education. 3 hours. Professor FARRINGTON

**113a-114a**—American education and social institutions. 2 hours. Professors FARRINGTON and HILLEGAS

**115-116**—Organization and administration of school systems. 2 hours. Professor STRAYER

213—Practicum—Comparative education. 2 hours. Professor FARRINGTON and Dean RUSSELL

215-216—Practicum—Administration of public education in the United States. 2 hours. Professor STRAYER

311-312—Seminar—Educational administration. Dean RUSSELL and Professors DUTTON, STRAYER, and FARRINGTON

### Educational Psychology

A—General and educational psychology. 1 hour lectures. 2 hours conferences. Professors THORNDIKE, NORSWORTHY, RUGER, and Dr. WHITLEY and Miss BRONNER

21-22—The psychology of childhood. 2 hours. Professor NORSWORTHY

[24—The psychology and education of exceptional children. 2 hours. Professors THORNDIKE and NORSWORTHY]

117-118—The applications of experimental and physiological psychology to education. 2 hours. Professor RUGER

119-120—Readings in educational psychology. 2 hours. Professor NORSWORTHY

121-122—Educational psychology, advanced course. 2 hours. Professors THORNDIKE, NORSWORTHY and RUGER and Miss BRONNER

124—The psychology of the elementary school subjects. 2 hours. Professor THORNDIKE

221-222—Educational psychology. 2 hours. Professors THORNDIKE NORSWORTHY and RUGER

224—Practicum—The application of psychological and statistical methods to education. 2 hours. Professor THORNDIKE

322—Seminar—Educational psychology. Professor THORNDIKE

### Secondary Education

125-126—Secondary education, general course. 3 hours. Professors SACHS and STEVENS

127-128—Secondary education, advanced course. 3 hours. Professors SACHS and STEVENS

129-130—The conduct of the recitation in secondary schools. 2 hours. Professor STEVENS

225-226—Supervision of instruction in secondary schools. 2 hours. Professors SACHS and STEVENS

227-228—Secondary education in Germany. 2 hours. Professor SACHS

229-230—Practicum—Secondary education. 2 hours. Professor SACHS

325-326—Seminar in secondary education. Professor SACHS

153-154—The teaching of biological sciences in secondary schools. 3 hours. Professor BIGELOW

- 156—Biology as related to education. 2 hours. Professor BIGELOW
- 183—Teaching of nature-study. 2 hours. Professor BIGELOW
- 253-254—Practicum in the teaching of biological sciences in secondary and normal schools. 2 hours. Professor BIGELOW
- 65-66—The teaching of oral English. 2 hours. Professor LATHAM
- 161-162—The teaching of English in secondary schools. 3 hours. Professor BAKER
- 261-262—Practicum in the teaching of English in secondary schools. 2 hours. Professor BAKER
- 63-64—Theory and practice of teaching art. 3 hours. Professor DOW
- 163-164—Supervision of fine arts. 2 hours. Professor DOW
- 165-166—The teaching of French. 3 hours. Professor COHN
- 167-168—The teaching of geography. 3 hours. Professor DODGE and Miss KIRCHWEY
- 267-268—Practicum in geography. Professor DODGE
- 169-170—The teaching of German in secondary schools. 3 hours. Professor BAGSTER-COLLINS
- 269-270—Practicum in German. 2 hours. Professor BAGSTER-COLLINS
- 171-172—The teaching of Greek in secondary schools. 3 hours. Professor LODGE
- 173—The teaching of history in secondary schools. 3 hours. Professor JOHNSON
- 273—Practicum in history. 2 hours. Professor JOHNSON
- 175-176—The teaching of Latin in secondary schools. 3 hours. Professor LODGE
- 275-276—Practicum in Latin—Caesar and Vergil. 2 hours. Professor LODGE
- 375-376—Seminar—Problems in Latin syntax. Professor LODGE
- 71-72—Encyclopedia of elementary mathematics. 2 hours. Professor UPTON
- 179-180—The teaching of mathematics in secondary schools. 3 hours. Professor SMITH
- 179A-180A—The teaching of applied mathematics. 3 hours. Mr. BRECKENRIDGE
- 279-280—Practicum in the history and teaching of mathematics. 2 hours. Professor SMITH
- 379-380—Seminar in the history and teaching of mathematics. Professor SMITH
- 81-82—The teaching of school music. 3 hours. Professor FARNSWORTH and Miss LATHAM
- 83A-84A—Theory and practice of music education for advanced students of piano. 1 hour. Mr. CADY
- 181-182—Supervision of school music. 2 hours. Professor FARNSWORTH



- 281-282—Practicum in the teaching of school music. Professor FARNSWORTH
- 87—Personal hygiene and sanitation. 3 hours. Professor WOOD
- 88—Educational hygiene. 3 hours. Professor WOOD
- 89-90—The teaching of hygiene in the elementary grades. 1 hour. Miss REESOR
- 187-188—Hygiene of childhood and adolescence. 1 hour. Professor WOOD
- 189-190—The teaching of physical education. 3 hours. Professor WOOD, and Assistants
- 287-288—Hygiene of childhood and adolescence. 1 hour. Professor WOOD
- 289-290—Practicum in physical education. 2 hours. Professor WOOD
- 191-192—The teaching of physical science in secondary schools. 3 hours. Professor WOODHULL and Miss FRANCIS
- 291-292—Practicum in physical science. 2 hours. Professor WOODHULL
- 391-392—Seminar in the history and teaching of physical science. Professor WOODHULL

### Elementary Education

- 2—Principles of teaching. 2 hours. Professors McMURRY, SUZZALLO, and BONSER
- 131-132—Theory and practice of teaching in elementary schools. 5 hours. Professors HILLEGAS, BAKER, DODGE, SMITH, BIGELOW, and JOHNSON
- 131ab-132ab—Theory and practice of teaching in elementary schools. Half of above course. 2 hours. Professor HILLEGAS
- 133-134—Criticism and supervision of instruction in the elementary school. 2 hours. Professor McMURRY
- 141-142—The relationship of the kindergarten to the primary school. 2 hours. Miss MOORE
- 231-232—Criticism and supervision of instruction in the elementary school. 3 hours. Professor McMURRY
- 233-234—Practicum—Current problems in elementary education. 2 hours. Professor HILLEGAS
- 333-334—Seminar. Professors McMURRY and HILLEGAS
- 65-66—The teaching of oral English. 2 hours. Professor LATHAM
- 63-64—Theory and practice of teaching art. 2 hours. Professor DOW
- 163-164—Supervision of fine arts. 2 hours. Professor DOW
- 67-68—The teaching of geography in elementary schools. 1 hour. Miss KIRCHWEY
- 79-80—Commercial and industrial arithmetic. 2 hours. Mr. BRECKENRIDGE



81-82—The teaching of school music. 2 hours. Professor FARNSWORTH

83-84—Theory and practice of music education for elementary students of piano. 1 hour. Mr. CADY

181-182—Supervision of school music. 2 hours. Professor FARNSWORTH

183—The teaching of nature study. 2 hours. Professors BIGELOW and WOODHULL

88—Educational hygiene. 3 hours. Professor WOOD

89-90—The teaching of hygiene in the elementary grades. 1 hour. Miss REESOR

189-190—The teaching of physical education. 2 hours. Professor WOOD and assistants

### Kindergarten Education

41-42—Kindergarten principles. 2 hours. Miss SMITH

43-44—Institutions for the conservation of childhood. 2 hours. Miss ATKINSON

45-46—Theory and practice of kindergarten teaching. 2 hours. Professor HILL and Miss BROWN

47-48—The primary school: its methods and subject matter. 2 hours. Miss MOORE

49-50—Literature in the kindergarten and primary grades. 2 hours. Miss MOORE

49a-50a—One-half of the above course. 1 hour. Miss MOORE 1

141-142—Relationship of the kindergarten to the primary school. 2 hours. Miss MOORE

143-144—Kindergarten conference. 3 hours. Professor HILL

145-146—Curricula for kindergarten normal schools and problems in kindergarten supervision. 3 hours. Professor HILL

Seven other, introductory, courses in kindergarten are also given.

### Technical Education

Education 57-58—The teaching of household arts. 2 hours. Professors KINNE and COOLEY, Miss CORA WINCHELL, Miss FLORENCE WINCHELL and Miss MCGOWIN

Education 157-158—Supervision and critic teaching in the household arts. 2 hours. Professors KINNE and COOLEY

Education 257-258—Practicum in household arts. 2 hours. Professors KINNE and COOLEY

86—Teaching and administration in public health nursing. 1 hour. Miss WALD, Miss CRANDALL, and other lecturers.

185—Teaching in schools of nursing. 2 hours. Miss STEWART

186—Administration of schools of nursing. 2 hours. Professor NUTTING

285—Practicum in nursing. 2 hours. Professor NUTTING

77-78—Industrial arts for the elementary grades. 4 hours. Miss COFFEY

77a-78a—Abbreviated course. 3 hours. Miss COFFEY

177-178—Teaching industrial arts. 3 hours. Professors BONSER, NOYES, WEICK and SLEFFEL

#### Household Arts Education

131—Experimental cookery. 3 hours. Professor VAN ARSDALE and Miss FRENCH

165-166—Household economics, advanced. 2 hours. Dr. ANDREWS

294—Practicum in household and institutional administration. 2 hours. Professor NUTTING

121-122—Household chemistry, advanced. 6 hours. Professor VULTÉ

130—Sanitary chemistry. 4 hours. Professors VULTÉ and BIGELOW, and Miss VANDERBILT

125—Physiological chemistry. Professor GIES and Dr. SEAMAN

127—Physiological chemistry, advanced. 6 hours. Professor GIES and Dr. SEAMAN

129—Sanitary chemistry. 4 hours. Dr. SEAMAN

110—Dietetics. Professor ROSE

115—Nutrition and food economics. 2 hours. Professors SHERMAN and ROSE

117—Laboratory methods in nutrition. 4 hours. Professor ROSE and Miss McCORMICK

215—Practicum in nutrition and food economics. Professor SHERMAN

218—Investigation in nutrition or food economics. Professors SHERMAN and ROSE

185-186—Public health investigation. 2 hours. Dr. WINSLOW

#### Electrical Engineering

*Professors:* <sup>1</sup>CROCKER, SLICHTER (*Executive Officer*)

*Assistant Professors:* ARENDT, MORECROFT

*Instructors:* HEHRE, MASON

*Assistants:* GRAETZ, STAVELY

Professors M. I. PUPIN and W. A. WILLS of the Department of Physics give instruction in electro-mechanics to the Electrical Engineering students.

See the statement of the Department of Physics.

#### Courses

*For the significance of course numbers see page 56*

2—Elements of dynamo-electric machinery. 2 hours. Professors ARENDT and MORECROFT

4—Electric distribution, for Civil, Mechanical, Mining, and Metallurgical Engineering students. 2 hours. Professor ARENDT

<sup>1</sup> Absent on leave 1912-1913.

5—Alternating current engineering. 105 abridged. 1 hour. Professor ARENDT

52—Design of direct-current machinery. 2 hours and 1 afternoon. Professor ARENDT

54—Design of alternating-current machinery. 2 hours and 1 afternoon. Professor SLICHTER

72—Direct-current laboratory—Short course for students in Mining, Civil, Metallurgical, Sanitary, and Chemical Engineering. 1 hour and 1 afternoon. Messrs. HEHRE, MASON, and assistants.

73—Direct-current laboratory—Short course for students in Mechanical Engineering. 1 hour and 1 afternoon. Mr. HEHRE and assistants

75—Alternating-current laboratory—Short course for students in Mining, Metallurgical, and Mechanical Engineering. 1 hour and 1 afternoon. Professor MORECROFT and Messrs. HEHRE, MASON, and assistants.

76—Alternating-current laboratory. Same as E. E. 75. For students in Civil Engineering. 1 hour and 1 afternoon. Professor MORECROFT and Messrs. HEHRE, MASON, and assistants

98—Thesis—Original work and report on a subject approved by the head of the department. Optional

101—Generator and motor practice—Principles, construction, operation, and testing. 1 hour. Professor SLICHTER

103—Electric motor—Electric motors, their action, control, and application. 3 hours. Professor ARENDT

103A—Electric motors—103 abridged for Mechanical Engineering students. 2 hours. Professor ARENDT

104—Electric distribution—Principles and methods of transmitting and distributing direct and alternating currents. 3 hours. Professor SLICHTER

105—Alternating-current engineering. 3 hours. Professor SLICHTER

105A—Alternating-current engineering—105 abridged for Mechanical Engineering students. 2 hours. Professor SLICHTER

106—Electric plants—Operation, organization, and administration. 2 hours. Professors SLICHTER and ARENDT and special lecturers

108—Plant inspection. 3 hours. Professors SLICHTER and ARENDT

109-110—Telegraphy and telephony. 1 hour. Professor ARENDT

112—Electric railways—Their design, installation, and operation. 2 hours. Professor SLICHTER

112A—Electric railway—For students in Civil Engineering. 2 hours. Professor SLICHTER

173-174—Direct-current laboratory—Practice in the use of instruments and in the operation and testing of direct-current dynamos and motors. 2 hours and 2 afternoons first term. 1 hour and 1 day second term. Mr. HEHRE and assistants.

175-176—Alternating-current laboratory—Practice in the use of instruments and in the operation and testing of alternating-current generators, motors, and transformers. 1 hour and 1 day. Professor MORECROFT

177—Instrument laboratory Electrical measurements, storage-battery testing, photometry of electric lamps. 1 hour and 2 afternoons. Mr. MASON

For Mechanics 107, 108, 109, 111, see Physics, page 150

#### Summer Session

s2—Elements of dynamo-electric machinery. 5 hours. Professor MORECROFT

s4—Principles of electrical distribution. 5 hours. Professor MORECROFT

#### Equipment

The offices, laboratories, museums, and lecture-rooms of the Electrical Engineering Department are in the Engineering Building.

The laboratories located in the basement contain direct and alternating-current machinery and apparatus. The various machines in these laboratories are respectively examples of constant-potential generators, constant-current arc-lighting dynamos, many types of stationary and railway motors, and motor-dynamos. Complete sets of ampere, volt, and watt meters, speed indicators, transmission and absorption dynamometers are available for testing the various generators and motors.

The alternating-current apparatus includes single-phase and polyphase generators, induction and synchronous motors, rotary converters, mercury arc rectifiers, and various types and sizes of transformers. Test boards and complete sets of alternating-current measuring instruments and curve-tracing apparatus, such as an oscillograph and ondograph, are also provided.

The lecture-rooms are provided with an ample supply of electrical currents of different forms, and other facilities for experimental demonstrations. The museum contains collections of apparatus, models, and materials relating to electrical engineering.

The large instrument laboratory on the third floor contains various forms of galvanometers, ampere balances, potentiometers, standard cells and resistances, measuring apparatus, laboratory standard volt and ammeters, as well as the high-tension testing sets. A storage battery is provided for testing, calibration, and standardization purposes.

The photometric laboratory of this department is situated in the basement of Havemeyer Hall and it is equipped with various forms of photometers for gas, arc, and incandescent lamp testing.

#### English and Comparative Literature

*Professors:* BAKER, BALDWIN, BREWSTER, FLETCHER, GILDERSLEEVE, KRAPP, MATTHEWS, ODELL, SYKES, THORNDIKE (A. H.) (*Executive Officer*), and TRENT



*Associate Professors:* ERSKINE, HUBBARD, and LAWRENCE

*Assistant Professors:* AYRES, LATHAM, and TASSIN

*Associate:* WEEKS (M. F.)

*Instructors:* BURD, DANA, HALLER, LOMER, PATTERSON, POWELL, STEEVES, VAN DOREN, WRIGHT

*Lecturers:* FOX, HOWARD, and STURTEVANT (E.)

*Assistant:* LAPE

### English

*For the significance of course numbers see page 56*

A—English composition. 3 hours. Professor ERSKINE, Mr. STEEVES, Dr. VAN DOREN and Dr. DANA (Columbia College); Professors BALDWIN and HUBBARD, Miss WEEKS, Mr. HALLER, Miss HOWARD, Miss STURTEVANT, Miss LAPE (Barnard College)

B—English literature and composition. 2 hours (Columbia); 3 hours (Barnard). Professors ODELL and ERSKINE, Dr. WRIGHT, Mr. STEEVES, Dr. VAN DOREN and Dr. DANA (Columbia); Professors BALDWIN and TASSIN, Mr. HALLER, Miss HOWARD, Miss FOX and Miss LAPE (Barnard)

1-2—English composition—Daily themes and fortnightly essays, lectures, and consultations. 3 hours. Professor BALDWIN (Columbia); Professor BREWSTER (Barnard)

7-8—Vocal training and elocution. 2 hours. Professor TASSIN (Columbia and Barnard)

11-12—Public speaking. 3 hours. Professor TASSIN (Columbia)

15-16—English versification. 2 hours. Professor BRANDER MATTHEWS (Columbia)

17-18—English modern literature. 2 hours. Mr. STEEVES and Dr. VAN DOREN (Columbia)

19-20—American literature. 2 hours. Professor BRANDER MATTHEWS (Columbia)

21-22—English literature from 1780 to 1830. 3 hours. Professor ODELL (Columbia); Professor HUBBARD (Barnard)

Courses 21-22 and 23-24 are given in alternate years.

[23-24—English literature from 1830 to 1890. 3 hours. Professor ERSKINE (Columbia)]

25-26—English literature from 1557 to 1660. 3 hours. Professor ERSKINE (Columbia); Professor TRENT (Barnard)

Courses 25-26 and 27-28 are given in alternate years.

27-28—English literature from 1660 to 1780. 3 hours. Professor ODELL (Columbia); Professor TRENT (Barnard)

Course 27-28 is not given at Columbia in 1912-13.

29-30—English literature from the earliest period to the Norman conquest. 3 hours. Professor AYRES (Columbia); Professor KRAPP (Barnard)

Course 29-30 is not given at Columbia in 1912-13.

31-32—English literature from the Norman conquest to 1557. 3 hours. Professor AYRES (Columbia and Barnard)



- 33-34—English literature of the Victorian period. 3 hours. (Barnard.)  
Professor HUBBARD
- 35-36—Shakespeare. 2 hours. Professor LAWRENCE (Columbia); 3  
hours. Professor GILDERSLEEVE and Miss FOX (Barnard)
- 37-38—English prose, including fiction. 2 hours. Professor BREW-  
STER (Barnard)
- [39-40—The development of English fiction. 2 hours. Professor  
BRANDER MATTHEWS (Columbia)]
- 41-42—The development of the English drama. 2 hours. Professor  
ODELL (Columbia) and Professor TASSIN (Barnard)
- 45-46—English literary criticism. 2 hours. Professor HUBBARD  
(Barnard)
- 203—The college teaching of composition. 2 hours. Professor BALDWIN
- 204—The theory of rhetoric. 2 hours. Professor BALDWIN
- [205-206—Development of English prose from Wiclif to Bacon. 2  
hours. Professor KRAPP]
- 207-208—History of the English language. 2 hours. Professor KRAPP
- [212—English sounds. A course in the phonetic history of the language.  
2 hours. Professor KRAPP]
- [213—Historical English grammar. 2 hours. Professor KRAPP]
- 215—Anglo-Saxon prose. 2 hours. Professor AYRES
- [216—Caedmon and Cynewulf. 2 hours. Professor LAWRENCE]
- 218—Beowulf. 2 hours. Professor LAWRENCE
- 219-220—Middle English language and literature. 2 hours. Pro-  
fessors KRAPP and AYRES
- [222—History of Anglo-Saxon literature. 2 hours. Professor AYRES]
- 227-228—Chaucer. 2 hours. Professor LAWRENCE
- 230—Spenser. 2 hours. Professor FLETCHER
- 231-232—English literature in the seventeenth century. 2 hours.  
Professor TRENT
- [235-236—English literature, 1798-1832. 2 hours. Professor THORN-  
DIKE]
- 237-238—English literature, 1832-1880. 2 hours. Dr. VAN DOREN  
and Professor THORNDIKE
- [239-240—English literature in the Victorian period. 2 hours. Pro-  
fessor THORNDIKE]
- 243-244—Shakespeare as a playwright. 2 hours. Professor BRANDER  
MATTHEWS
- [247-248—English comedy: its history and its methods. 2 hours.  
Professor BRANDER MATTHEWS]
- 251-252—The development of the drama. 2 hours. Professors  
ODELL and THORNDIKE
- [253-254—Textual criticism of Shakespeare plays. 2 hours. Professor  
THORNDIKE]

[258—The English lyric in the sixteenth and seventeenth centuries. 2 hours. Professor ERSKINE]

261-262—English prose in the eighteenth century. 2 hours. Professor ODELL

[263-264—English prose in the nineteenth century. 2 hours. Professor ODELL]

267-268—American literature. 2 hours. Professor ERSKINE

269-270—English literary criticism. 2 hours. Professor BREWSTER

301-302—Seminar—Studies in Shakespeare. 2 hours. Professors AYRES and THORNDIKE

303-304—Seminar—The romantic movement. 2 hours. Dr. WRIGHT

305-306—Seminar—Studies in the eighteenth century. 2 hours. Professor TRENT

307-308—Seminar—Studies in sixteenth century prose. 2 hours. Professor KRAPP

309-310—Seminar—Discussion of dissertations. Professors TRENT, FLETCHER, THORNDIKE, KRAPP, LAWRENCE and AYRES

#### Undergraduate Courses in Teachers College

51-52—English speech. 2 hours. Professor LATHAM and assistant

53-54—Reading and story-telling. 2 hours. Professor LATHAM

57-58—Reading and speaking. Advanced course. 2 hours. Professor LATHAM

71-72—Nineteenth century writers. 2 hours. Professor BAKER and Miss HILL.

75-76—Typical forms of literature. 2 hours. Professor SYKES and Miss EGAN

#### Comparative Literature

[271-272—Medieval literature: ballad and epic. 2 hours. Professor LAWRENCE]

273-274—Medieval literature: romances. 2 hours. Professor LAWRENCE

275-276—Dante and medieval culture. 2 hours. Professor FLETCHER

278—Medieval lyric. 2 hours. Dr. PATTERSON

281-282—The Renaissance in Europe: introductory course. 2 hours. Professor FLETCHER

285-286—Classicism in the seventeenth and eighteenth centuries. 2 hours. Dr. DANA and Dr. VAN DOREN

287-288—The romantic movement. 2 hours. Dr. WRIGHT

291-292—Dramatists of the nineteenth century. 2 hours. Professor BRANDER MATTHEWS

[293-294—Molière and the Restoration comedy. 2 hours. Professor BRANDER MATTHEWS]

307-308—Relations between English and Continental literatures in the sixteenth century. Professor FLETCHER

309-310—Seminar.—Discussion of dissertations. 2 hours. Professors TRENT, FLETCHER, THORNDIKE, KRAPP, LAWRENCE and AYRES

Summer Session

sA1—Rhetoric and English composition. 2 points. Professors BALDWIN and DENNY, Messrs. HOOVER, WHICHER and Miss FOX

sA2—English composition. 2 points. Professor SHERMAN and Mr. WHICHER

s1—Advanced composition. 2 points. Professor BALDWIN

This course is limited to 20 students.

s19—American literature. 2 points. Professor CAIRNS

[s23—English literature in the first half of the nineteenth century. 2 points. Dr. WRIGHT]

s24—English literature of the Victorian age. 2 points. Professor DENNY and Mr. BURD

s25—English literature of the seventeenth century. Professor SHERMAN and Mr. WHICHER

[s27—English literature in the eighteenth century. 2 points. Professor DENNY]

s35—Shakespeare. 2 points. Dr. WRIGHT and Mr. BURD

s65—Elements of oral expression. 4 points. Professor DAVIS and Mr. PORTER

s66—Vocal interpretation of English classics. 2 points. Professor DAVIS and Mr. PORTER

s67—Platform speaking. 4 points. Professor DAVIS and Mr. PORTER

s129—Anglo-Saxon. Professor TUPPER

s207—History of the English language. Professor TUPPER

s235—The romantic movement. Dr. WRIGHT

s259—English prose in the sixteenth century. Professor KRAPP

s267—Studies in American literature. Professor CAIRNS

Extension Teaching

eV1-V2—English for foreigners. Mr. DUNCAN

eW1-W2—English grammar and composition. Mr. DUNCAN. Also in Newark. Dr. TAYLOR

eX1-X2—College entrance English. Mr. GASTON

eY1-Y2—College entrance English. Mr. MITCHELL and Mr. DUNCAN

eA1-A2—English composition. 3 points. Dr. WOLFF. Also in Newark. Dr. TAYLOR

eA3-A4—English composition. 1½ points. Dr. WOLFF. Also given in Trenton. Dr. TAYLOR

eB1-B2—English literature and composition. 2 points. Dr. WOLFF

e1a-2a—English composition. Advanced. 1½ points. Dr. WOLFF

e1b-2b—English composition. The short story. Mr. PITKIN. Also in Newark. Mr. PITKIN

- e1c-2c—English composition (advanced). Theory of fiction writing. Mr. PITKIN
- e11a-12a—Public speaking. 2 points. Mr. DOW
- e17-18—Modern literature, English and foreign. 2 points. Mr. STEEVES
- e19-20—The history of American literature. 2 points. Dr. VAN DOREN
- e23a-24a—Typical forms of English literature. 2 points. Professor TUCKER. Also given in Trenton. Dr. TAYLOR
- e31-32—Fourteenth century literature. 2 points. Dr. PATTERSON
- e35a-36a—Shakespeare. 2 points. Professor TASSIN
- e41a-42a—Contemporary dramatic literature. 2 points. Mr. HAMILTON
- e49a-50a—Sentence analysis. 1 point. Miss COOK
- e51a-52a—English phonetics. Dr. ROBINSON
- e61a-62a—Oral composition in elementary schools. 1 point. Miss COOK
- Commercial English e1-2—Business English and commercial correspondence. Mr. DUNCAN

## Fine Arts

(See Architecture, Music, and Design)

In addition eighteen courses in Fine Arts are offered under the auspices of Teachers College. For details see the *Announcement of the School of Practical Arts* and the special circular of the department.

See also the Statement of the Faculty of Fine Arts, page 319.

## French

(See Romance Languages and Literatures)

## Geography

*Professor:* DODGE

*Instructor:* KIRCHWEY (C. B.)

### Courses

*See introductory paragraphs, page 56*

- 1-2—Elements of physical and industrial geography. 3 hours. Professor DODGE and Miss KIRCHWEY
- 51-52—General geography. 3 hours. Miss KIRCHWEY
- 51a-52a—General geography. 1 hour. Miss KIRCHWEY
- 55—Geography for primary grades. 2 hours. Miss KIRCHWEY
- 56—Man and his environment. 2 hours. Professor DODGE
- 101-102—The geography of the United States and Western Europe. 2 hours. Professor DODGE and Miss KIRCHWEY
- See also Education 67-68, 167-168, 267-268

## Summer Session

s25—Physical geography and its economic aspects. 2 points. Professor D. W. JOHNSON and Dr. WRIGHT

s27—Physiography of the Eastern United States. 2 points. Professor D. W. JOHNSON and Dr. WRIGHT

s28—[Physiography of the Western United States]. Professor D. W. JOHNSON

## Equipment

The Department of Geography occupies a suite of three rooms on the fourth floor of Teachers College. A lecture-room and laboratory capable of holding fifty, an office, and a combined office and stock-room compose the suite. The department is furnished with lantern slides, models, and wall maps; and has a set of the more important weather instruments in an outdoor shelter. The supply of topographic, climatic, and special maps, of diagrams, of physical models, and of lantern slides is large, and has been especially chosen for use in the several courses.

## Geology

*Professors:* GRABAU and KEMP (*Executive Officer*)

*Associate Professor:* JOHNSON (D. W.)

*Assistant Professors:* BERKEY and OGILVIE

*Curator:* LEBLING

*Lecturer:* BURR

*Assistants:* FETTKE, HINTZE, and RAEDER

*Instructors in Extension Geology:* HINTZE, O'CONNELL

## Courses

*See introductory paragraphs, page 56*

1-2—General geology. C 2 hours, L 2 hours. Professors GRABAU, JOHNSON, and BERKEY and Mr. HINTZE

4—Petrography. C 2 hours, L 4 hours for two months. Compare Mineralogy 6. Professor BERKEY

5-6—General geology. 3 hours. Professors KEMP and BERKEY

15—Elementary paleontology. C 1 hour, L 2 hours. Professor GRABAU and Mr. HINTZE

16—Index fossils. C 1 hour, L 6 or more hours. Prerequisite, Course 1-2, or 5-6. Professor GRABAU and Mr. HINTZE

18—General geology. C 3 hours. Field work on Saturdays (last six weeks). Professor BERKEY

19—Physiography—Physical features of the earth, and their effect on man—Land forms and map interpretation. May be continued with course 2. C 2 hours, L 2 hours. Professor JOHNSON

20—Rocks and soils. Origin, structure, constituents, and variety of soils. C 2 hours, L 1 hour. Professor BERKEY



51-52—Principles of geology. 2 hours. Professors GRABAU and BERKEY

105-106—Economic geology. 3 hours. Professor KEMP

107-108—Invertebrate paleontology. *C* 2 hours, *L* at least 4 hours. Professor GRABAU and Mr. HINTZE

110—Geological examinations and surveys—Field methods and organization. 2 hours. Professor KEMP

112—Field geology—One week's field work, and report upon the same, immediately at the close of the spring examinations. Professors KEMP, GRABAU, and BERKEY

113-114—Prehistoric archaeology. 20 lectures on geologic basis of archaeology. Professor BERKEY

110—Physiography of the eastern United States. Alternates with 121. Given in 1912. 3 hours. Professor JOHNSON

121—Physiography of the western United States. 3 hours. Professor JOHNSON. Alternates with 119. Omitted in 1912.

151-152—Principles of geology. *C* 2 hours, *L* 4 hours or more. (51-52 with additional laboratory and library work.) Professors GRABAU and BERKEY

175—Field geology in Paleozoic rocks of eastern North America. 2 to 4 weeks in the summer. Officers of the department

201-202—Petrology. *C* 2 hours, *L* at least 4 hours. Professors KEMP and BERKEY

205-206—Comparative geology of North America—A comparative description and study of the geological formations of North America. *C* 3 hours, 4 hours reading and laboratory. Professors KEMP and GRABAU

209-210—Comparative geology of Europe. *C* 2 hours, 4 hours laboratory and library work. Professor GRABAU

211—Phylogeny of the Gastropoda. *C* 1 hour, *L* 6 + hour. Professor GRABAU

212—Phylogeny of the Cephalopoda. *C* 1 hour, *L* 6 + hour. Professor GRABAU

213-214—Fossil faunas of North America. *L* 6 to 8 hours. Conference by appointment. Professor GRABAU and Mr. HINTZE

301-302—Paleogeography of North America. Development and changes of former continents and ocean basins. 1 hour seminar and laboratory according to arrangement. *C* 1 hour, *L* 6 hours to 2 days. Professor GRABAU

303-304—Journal Club and seminar conducted by officers of the department. 2 evenings a month.

307-308—Research in areal, structural, economic, or physiographic geology under officers of the department.

311-312—Phylogeny of a special group of invertebrates. Research course. Professor GRABAU

315-316—Stratigraphy. Research course. Professor GRABAU

**B 1-2**—General geology. Elementary course. *C* 2 hours, *L* 2 hours. 6 points. Professor OGILVIE and Miss RAEDER

**B1a-2a**—General geology. 2 points.

**B 113**—Summer field course.—Two weeks in the field, and subsequent preparation of a report. Professor OGILVIE

**B115-116**—Paleontology. *C* 1 hour, *L* 2 hours. Professor OGILVIE and Mr. BURR

**B117-118**—Glacial geology and advanced physiography. *C* 1 hour, *L* to be arranged. Professor OGILVIE

**B119-120**—General geology, advanced course. *C* and *L* to be arranged; 4, 6, or 8 hours. Professor OGILVIE and Mr. BURR

For the courses in geography see page 104.

**H215**—Engineering geology. Lectures, laboratory and field work. 3 hours. Professors KEMP and BERKEY

**H216**—Lithology and petrology. Lectures and laboratory work. 2 hours. Professors KEMP and BERKEY

#### Summer Session

**s1-s1a**—General geology. 2 or 3 points. Professor GRABAU, Miss O'CONNELL and Miss RAEDER

**s2 or s2a**—Elementary historical geology. 3 points. Professor GRABAU and Miss RAEDER

**s4**—Microscopic petrography. 3 points. Mr. FETTKE

**s16**—North American index fossils. 3 points. Mr. BURR

**s25a-25b**—Elementary conchology. 2 or 3 points. Miss O'CONNELL

**s113**—Field work in the vicinity of New York City. 3 points. Mr. BURR

**s151a-151b**—Principles of geology. 2 or more points. Half or full course. Professor GRABAU

**s175 or 175a**—Stratigraphic Geology. Field work in New York State. 2 or 4 points. Half or full course. Professor GRABAU

#### Extension Teaching

**e1**—General geology—a general introduction to the subject of geology. 3 points. Mr. HINTZE

**e2**—Historical geology—the origin of the earth and its physical and organic development. 3 points. Mr. HINTZE

**e25-26**—Elementary conchology. 2 points. Each half year. Miss O'CONNELL

The following courses in paleobotany are offered at the New York Botanical Garden by Dr. ARTHUR HOLLICK:

General paleobotany—Developmental history and structure of the fossil flora of some selected locality. Laboratory and museum.

Cretaceous flora of eastern North America—Collection and determination of specimens from some station with attention to stratigraphic relations. Field and laboratory.

### Equipment

The department has ample laboratories and a full equipment for its several lines of work. For details see the separately printed *Announcement*.

The paleobotanical library and collections of Columbia University have been deposited at the New York Botanical Garden.

### Germanic Languages and Literatures

*Professors:* CARPENTER and THOMAS (*Executive Officer*)

*Associate Professors:* BAGSTER-COLLINS, BRAUN, HERVEY, and TOMBO

*Assistant Professors:* HEUSER and REMY

*Instructors:* BECHERT, HASKELL, PALMBLAD, PORTERFIELD, and SCHULZE

*Lecturer:* RICHARD

*For the significance of course numbers see page 56*

#### German

A1-A2—Elementary course. 3 hours. Mr. SCHULZE (Columbia); Mr. BECHERT, Drs. PORTERFIELD and HASKELL (Barnard)

B1-B2—Intermediate course. 3 hours. Messrs. SCHULZE and PALMBLAD (Columbia); Drs. PORTERFIELD and HASKELL (Barnard)

E1-E2—Course for engineering students. 3 hours. Mr. SCHULZE

J1-J2—Journalistic German. Intermediate course. 3 hours. Mr. PALMBLAD

J3-J4—Journalistic German. Advanced course. 3 hours. Mr. SCHULZE

3-4—Composition and colloquial practice. Intermediate course. 2 hours. Professors HEUSER and TOMBO (Columbia), Mr. BECHERT (Barnard)

5-6—Selected works of Goethe, Schiller, and Lessing. 3 hours. Professors HERVEY and HEUSER (Columbia), Professor BRAUN, Mr. BECHERT, and Dr. PORTERFIELD (Barnard)

7-8—Modern German prose. 3 hours. Professor TOMBO (Columbia), Dr. PORTERFIELD (Barnard)

9—*Laokoön*: Lessing, Herder, Goethe. 2 hours. Mr. SCHULZE

10—Lessing's *Hamburgische Dramaturgie*. 2 hours. Mr. SCHULZE

9, 10—Advanced practice course. 2 hours. Professor BRAUN (Barnard)

11-12—Composition and colloquial practice. Advanced course. 2 hours. Professor HEUSER

13-14—[Nineteenth-century writers. Kleist and Grillparzer. 2 hours. Professor HEUSER]

15-16 or 15a-16a—Nineteenth-century writers. Hebbel and Hauptmann. 2 or 3 hours. Survey of nineteenth-century drama in third hour. Professor HEUSER

[17-18—Life and works of Goethe. 3 hours. Professor HERVEY]

- 20a—Life and works of Schiller. 4 hours. Professor HERVEY  
 [21, 22—Goethe. Life and selected works. 3 hours. Dr. HASKELL  
 (Barnard)  
 23, 24—Schiller. Life and selected works. 3 hours. Dr. HASKELL  
 (Barnard)  
 23-24—History of German civilization. 3 hours. Dr. RICHARD  
 25-26—Selected dramas of the nineteenth century. 2 hours. Pro-  
 fessor BRAUN (Barnard)  
 37, 38—History of German literature. 2 hours. Professor THOMAS  
 (Barnard)  
 39, 40—Goethe's *Faust*. First and second parts. 2 hours. Professor  
 BRAUN (Barnard)  
 51-52—German in secondary schools. 3 hours. Professor BAGSTER-  
 COLLINS. Given in Teachers College  
 53-54—Educational German. 2 hours. Professor BAGSTER-COLLINS.  
 Given in Teachers College.  
 61 and 101—History of German literature from the earliest times to  
 the Reformation. 3 hours. Professor THOMAS  
 62 and 102—History of German literature from the Reformation to  
 the nineteenth century. 3 hours. Professor THOMAS  
 63-64 and 103-104—Goethe's *Faust*. First and second parts. 2 hours.  
 Professor THOMAS  
 105—German literature in the nineteenth century. 2 hours. Pro-  
 fessor THOMAS  
 106—Contemporary German literature. 2 hours. Professor TOMBO  
 107—History of the German language. 2 hours. Professor REMY  
 108—The German of to-day. 2 hours. Professor REMY  
 113—Middle High German. 2 hours. Professor REMY  
 114—Middle High German poetry. 2 hours. Professor REMY  
 128—Old High German and Old Saxon. 3 hours. Professor REMY  
 129-130—Outlines of the history of German civilization. 2 hours.  
 Dr. RICHARD  
 141—Phonetics. 2 hours. Professor BAGSTER-COLLINS. Given in  
 Teachers College.  
 142—Modern German Syntax. 2 hours. Professor BAGSTER-COLLINS.  
 Given in Teachers College  
 Education 69-70—The teaching of German. 3 hours; practical work, 3  
 hours. Professor BAGSTER-COLLINS. Given in Teachers College  
 201—[Proseminar. Lessing. 2 hours. Professor THOMAS]  
 202—[Proseminar. Goethe. 2 hours. Professor THOMAS]  
 203—Proseminar. Schiller. 2 hours. Professor THOMAS  
 204—Proseminar. Heine. 2 hours. Professor THOMAS  
 207—Proseminar. Hauptmann. 2 hours. Professor TOMBO  
 208—Proseminar. Fontane. 2 hours. Professor TOMBO  
 211-212—Special investigations. Professor THOMAS



*Scandinavian*

- 121—Elementary Icelandic. 2 hours. Professor REMY  
122—Advanced Icelandic. 2 hours. Professor REMY

*Gothic*

- 127—Gothic. 3 hours. Professor REMY

*Germanic Philology*

- 205-206—Comparative philology of the Germanic dialects. 2 hours.  
Professor REMY

*Germanic Seminar*

- 301—The heroic lays of the Elder Edda. 2 hours. Professor CARPENTER  
302—History of the Faustsage. 2 hours. Professor THOMAS

*Summer Session*

- sA1—Elementary course. 2 points. Professor BRAUN, Dr. PORTERFIELD, and Mr. SCHULZE  
sA2—Elementary reading and oral practice. 2 points. Mr. BECHERT and Mr. SCHULZE  
sA3—Supplementary course. 2 points. Mr. BECHERT and Dr. PORTERFIELD  
sB1—Intermediate course. First part. 2 points. Mr. SCHULZE  
sB2—Intermediate course. Second part. 2 points. Professor REMY  
s3-4—Composition and oral practice. Intermediate course. 2 points. Mr. BECHERT  
s5-6—Introduction to the classics. 4 points. Professor HEUSER  
s11-12—Composition and oral practice. Advanced. Professor BRAUN  
s101-102—History of German literature. 2 points. Professor VON KLENZE  
s103-104—Goethe's *Faust*. 2 points. Professor BRAUN  
s107—History of the German language. 2 points. Professor REMY  
s110—Old High German.  
s127-128—[Gothic. 2 points. Professor REMY]  
s136—Das deutsche Drama des neunzehnten Jahrhundert. 4 points. Professor VON KLENZE  
s141—Phonetics. Professor BAGSTER-COLLINS.  
s201—Proseminar A. Great German writers. Lessing. 3 points. Professor HEUSER  
[s202—Proseminar B. Great German writers. Goethe]  
s203—[Proseminar C. Great German Writers. Schiller. 3 points.]

*Extension Teaching*

- eA1-A2—Elementary course. 6 points. Professor HEUSER, Dr. PORTERFIELD (in Brooklyn), Mr. PALMBLAD



- eA3-A4—Elementary course. First half. 3 points. Mr. M. G. BACH  
(in Trenton), Mr. HAUCH
- eA5-A6—Elementary course. Second half. 3 points. Mr. M. G. BACH
- eA8—Elementary course. First half. 3 points. Mr. BECHERT
- eB1-B2—Intermediate course. 6 points. Mr. SCHULZE
- eB3-B4—Shorter intermediate course. 4 points. Professor BRAUN
- e3-4—Composition and oral practice. Intermediate course. 3 points.  
Mr. BECHERT
- e5-6—Introduction to the classics. 4 points. Professor HEUSER
- e11-12—Composition and oral practice. Advanced. 3 points. Pro-  
fessor BRAUN

### Equipment

The University Library offers excellent facilities for the study of German, both on the literary and the linguistic side. The Scandinavian collection contains a good representation of the ancient saga and poetical literature, and most of the eminent writers of modern Norway, Denmark, and Sweden. The Holland Society library, deposited with the University in 1901, contains a considerable collection of books and pamphlets in the Dutch language from all periods.

The Library has sets and the current numbers of all the important periodicals which deal with Germanic literature and Germanic and general philology. It has also sets of periodicals no longer published, and a large collection of the transactions and publications of the learned societies of America and Europe.

A reference library of 1200 volumes, containing the most important subsidia for the critical study of the Germanic languages and literatures and independent of the main collection in the University Library, is placed in a room adjacent to the lecture-room and offices of the department in Philosophy Hall. A similar library of about 500 volumes is maintained in Hamilton Hall for the use of advanced college students.

The income of the Carl Schurz Library Fund (\$10,000), contributed by citizens of New York in commemoration of the seventieth birthday of Carl Schurz, is, by the terms of the gift, devoted in perpetuity to the purchase of books in the field of the German language and literature.

For the Carl Schurz Fellowship in the German Language and Literature, see index.

### Deutsches Haus

The Deutsches Haus, made possible by the gift of Mr. Edward D. Adams, is at 419 West 117th Street, and makes available for students and others contemporary German literature. Through newspaper clippings and periodicals the Haus offers detailed information concerning German life and institutions.

### Public Lectures

Lectures in the German language on popular subjects, intended pri-

marily for the students of the University, but to which the general public is also invited, are given each year under the auspices of the department.

#### Germanic Club

The Germanic Club is an organization founded in 1902 for the purpose of reviewing and discussing important contributions to recent scholarship in the Germanic field. The Club consists of the officers, fellows, and scholars of the department. Meetings are held monthly.

#### Deutscher Verein

The Deutscher Verein of Columbia University, founded in 1898, is an association of the students and instructors of the University who are interested in the study of the German language and literature, and in the acquisition of a more intimate knowledge of Germany, of German institutions, and of the German people than is furnished by academic study alone. Stated meetings are held in the room assigned to the Verein in West Hall.

#### Greek

(See page 80)

#### Gynecology

*Professor:* CRAGIN (*Executive Officer*)

*Professor of Clinical Gynecology:* CHAMBERS

*Associates:* OASTLER and WARD

*Instructors:* AYRES, LOBENSTINE, PROBEN, RYDER and WILLIAMS (P. H.)

*Clinical Assistants:* BRADLEY, KELLOGG, KNAPP, ROFF, SILLECK

#### Courses

*See introductory paragraphs, page 56*

52—The principles and practice of gynecology—Lectures, didactic, 2 a week. Professor CRAGIN

53-54—Clinic in operative gynecology. Twice a week. 2 hours. Professor CRAGIN

55—Recitations and demonstrations. 1 hour. Dr. WARD

57-58—Demonstration of patients convalescing from operation. Twice a week. Dr. AYRES

59-60—Clinic in operative gynecology to small sections at Lincoln Hospital. 1 hour. Dr. OASTLER

61-62—Practical instruction in diagnosis, to sections of the class—10-12 lessons for each student, Vanderbilt Clinic. Drs. OASTLER, PROBEN, RYDER, and WILLIAMS

63-64—Practical instruction in the diagnosis and treatment of venereal diseases in women to sections of the class—2 lessons for each student at Bellevue Hospital. Dr. LOBENSTINE

65-66—Clinic in operative gynecology. 1 hour. Professor CHAMBERS  
For equipment, see the Sloane Hospital for Women, p. 136

## History

*Professors:* BOTSFORD, DUNNING, (*Executive Officer*), JOHNSON (H.), OSGOOD, ROBINSON, SHEPHERD, SHOTWELL and SLOANE

*Associate Professor:* MUZZEY

*Assistant Professors:* HAYES and SCHUYLER

*Instructors:* GREEN, HUMPHREY, HUTTMANN and KENDRICK

*Assistants:* FOX and POYNTZ

## Courses

*See introductory paragraphs, page 56*

A1-A2—Epochs of history. 3 hours. Professors HAYES, SCHUYLER, Dr. HUMPHREY, Mr. GREEN and Mr. KENDRICK (Columbia College); Professor MUZZEY and Miss HUTTMANN (Barnard College)

A4-A5—3 hours. Dr. HUMPHREY (Columbia College)

3—History of Greece. 3 hours. Barnard College and Columbia College. Professor BOTSFORD

[4—History of Greece. Professor BOTSFORD (Barnard College)]

[4—History of Greece. Professor BOTSFORD (Columbia College)]

[5-6—The Roman Empire. 3 hours. Professor BOTSFORD]

7—Medieval history. 3 hours. Dr. HUMPHREY (Columbia College)

8—The Renaissance. 3 hours. Dr. HUMPHREY (Columbia College)

9—European history since 1848, political. 2 hours. Professor HAYES (Columbia College)

9-10—European history, modern and contemporaneous. 4 hours. Professor SHOTWELL and Miss POYNTZ (Barnard College)

10—European history since 1848, social 2 hours. Professor HAYES (Columbia College)

11—The political history of England, 1485-1688. 3 hours. Professor SCHUYLER (Columbia College)

11-12—English history, with special reference to the history of continental Europe. 3 hours. Professor MUZZEY (Barnard College)

12—The British Empire, 1688-1909. 3 hours. Professor SCHUYLER (Columbia College)

13—History of the United States from the settlements. 3 hours. Professor SCHUYLER (Columbia College)

13-14—History of the United States to the war with Mexico. 3 hours. Professor MUZZEY (Barnard College)

14—History of the United States. 3 hours. Professors DUNNING and SCHUYLER (Columbia College)

15-16—History of the United States since the war with Mexico. 2 hours. Professor SHEPHERD (Barnard College)

19-20—Laboratory in recent European history. 2 hours. Professor HAYES and Mr. GREEN (Columbia College)

51-52—Literature of American history. 2 hours. Professor JOHNSON (Teachers College)

55—The social history of the middle ages. 3 hours. Professor SHOTWELL and Mr. FOX (Columbia College)

56—The social and industrial history of modern England. 3 hours. Professor SHOTWELL and Mr. FOX (Columbia College)

69-70—The expansion of Europe. 3 hours. Professor SHEPHERD (Columbia College)

71-72—The history of the intellectual class in Europe. 3 hours. Professor ROBINSON and Mr. FOX (Columbia College)

117—History of Rome to the end of the Republic. 4 hours. Professor BOTSFORD

121-122—The history of the intellectual class in Europe. 4 hours. Professor ROBINSON and Miss HUTTMANN (Barnard College)

[125-126—The history of England to 1660]

127—Ethnography of Siberia and North America. 2 hours. Professor BOAS

128—Ethnography of Central and South America. 2 hours. Professor BOAS

[151—European history, 1815-1848. 2 hours. Professor SLOANE]

[153—Contemporary European history since 1848. Professor SLOANE]

[154—The political and social evolution of modern Turkey and Egypt. Professor GORTHEIL]

155—The social history of the middle ages. 2 hours. Professor SHOTWELL

156—The social and industrial history of modern England. 2 hours. Professor SHOTWELL

[157-158—History of Great Britain, principally during the eighteenth and nineteenth centuries]

159—History of socialism. 2 hours. Professor SIMKHOVITCH

[161—The formation of the American constitutional system. Professor BEARD]

[162—The development of the American constitutional system. Professor BEARD]

[163—Fiscal and industrial history of the United States. Professor SELIGMAN]

166—History of American Diplomacy. 2 hours. Professor J. B. MOORE

169-170—The expansion of Europe. 3 hours. Professor SHEPHERD

181—The historical characteristics of philosophy. 2 hours. Professor WOODBRIDGE

[183—Moral and political philosophy. Professor DEWEY]

193—Theory and practice of teaching history in secondary schools. 4 hours. Professor JOHNSON (Teachers College)

[213-214—The Roman Empire, political, social, and intellectual. Professor BOTSFORD]



[215-216—History of Greece, political, social, and intellectual. 3 hours. Professor BOTSFORD]

[217-218—Constitutional history of Greece. Professor BOTSFORD]

[221—Later Roman Empire and early Middle Ages. Professor SHOTWELL]

223—Primitive institutions, Paganism and Christianity. 2 hours. Professor SHOTWELL

224—History of European law. 3 hours. Professor MUNROE SMITH

[225—Europe in the twelfth and thirteenth centuries. 2 hours. Professor SHOTWELL]

[226—The Protestant revolt. Professor ROBINSON]

[228—The spirit of reform in England in the seventeenth and early eighteenth century. Professor ROBINSON]

<sup>1</sup> 229—General Church history. Period I: The ancient Church to 590 A.D. 2 hours. Professor MCGIFFERT

<sup>1</sup> 230—General Church history. Periods II and III: The Medieval and Modern Church, 590-1789. 2 hours. Professor ROCKWELL

<sup>1</sup> 231—History of Christian doctrine. I: History of thought in the Primitive and Catholic Church. 4 hours. Professor MCGIFFERT

<sup>1</sup> 232—History of Christian doctrine. II: History of Protestant thought. 4 hours. Professor MCGIFFERT

[<sup>1</sup> 233—History of early Christian literature. Professor MCGIFFERT]

<sup>1</sup> 235—History of the New Testament Canon with reading in the sources. 2 hours. Mr. TRYON

[<sup>1</sup> 237—History of New Testament times. Mr. TRYON]

<sup>1</sup> 238—Readings in the early fathers. 2 hours. Mr. TRYON

[<sup>1</sup> 240—The influence of contemporary cults on early Christianity. Mr. TRYON]

[<sup>1</sup> 241—Medieval Church history, 590-1517. Professor ROCKWELL]

[<sup>1</sup> 243—English Church history before the Reformation. Professor ROCKWELL]

[<sup>1</sup> 244—English Church history (Reformation and post-Reformation periods). Professor MCGIFFERT]

<sup>1</sup> 245—European Church history in the nineteenth century. 2 hours. Professor ROCKWELL

[<sup>1</sup> 246—American Church history. Professor ROCKWELL]

<sup>2</sup> 247—The Church during the first three centuries. 3 hours. Professor JENKS

<sup>2</sup> 248—The Church from the Council of Nicaea to Charlemagne. 3 hours. Professor JENKS

<sup>2</sup> 249—The Church of England. 3 hours. Professor JENKS

<sup>2</sup> 250—The Church from Charlemagne to modern times. 3 hours. Professor JENKS

<sup>1</sup> Given at Union Theological Seminary.

<sup>2</sup> Given at the General Theological Seminary.



- 251—History of diplomacy. 2 hours. Professor J. B. MOORE
- 252—The reforms of the French Revolution. 2 hours. Professor ROBINSON
- 254—The reform spirit in France before the Revolution. 2 hours. Professor ROBINSON
- 255—Social evolution: ethnic and civil origins. 2 hours. Professor GIDDINGS
- 256—Social evolution: civilization, liberty and democracy. 2 hours. Professor GIDDINGS
- [257—Historical types of society. Ancient: the theory of progress. Professor GIDDINGS]
- [258—Historical types of society. Modern: the theory of progress. Professor GIDDINGS]
- 260—Radicalism and social reform as reflected in the literature of the nineteenth century. 2 hours. Professor SIMKHOVITCH
- 261—American colonial history during the seventeenth century. 4 hours. Professor OSGOOD
- 263-264—American colonial history during the eighteenth century. 2 hours. Professor OSGOOD
- [267—The United States from 1850-1865. Professor DUNNING]
- [268—The United States after the Civil war. Professor DUNNING]
- 269—Hispanic institutions and culture. 2 hours. Professor SHEPHERD
- [271—Spanish and French colonization in the United States to 1763. Professor SHEPHERD]
- [273—Spanish colonization and the westward movement in the United States, 1763-1821. Professor SHEPHERD]
- 275—Colonial Latin America. 2 hours. Professor SHEPHERD
- 276—The Latin American Republics. 2 hours. Professor SHEPHERD
- 279—General history of political theories, ancient and medieval. 2 hours. Professor DUNNING
- 280—General history of modern political theories. 2 hours. Professor DUNNING
- 281—American political philosophy before 1850. 2 hours. Professor DUNNING
- 282—American political philosophy since 1850. 2 hours. Professor DUNNING
- 293—Practicum. 2 hours. Professor JOHNSON (Teachers College)
- 311—Seminar in Greek and Roman history. 1 hour. Professor BOTSFORD
- <sup>1</sup> 313-314—Historical seminar. 2 hours. Professor MCGIFFERT
- 315—Historical bibliography, with special reference to ecclesiastical sources. 2 hours. Professor ROCKWELL
- <sup>1</sup> 316—Historical training class: methods of research, with exercises.

<sup>1</sup> Given at Union Theological Seminary.

[317-318—Medieval ecclesiastical institutions. 2 hours. Professor ROCKWELL]

<sup>1</sup> 320—Religious thought in Germany in the eighteenth century. 2 hours. Professor MCGIFFERT

321—Historical bibliography; the sources of European history; methods of historical study. 2 hours. Professors ROBINSON and SHOTWELL

323—Seminar in primitive institutions in Europe. 2 hours. Professor SHOTWELL

356—Seminar in the social history of England during the industrial revolution. 2 hours. Professor SHOTWELL

[357—The work of Napoleon. Professor SLOANE]

[361-362—The American Revolution. Professor OSGOOD]

[363-364—Seminar in American colonial history. 1 hour. Professor OSGOOD]

[365-366—European politics and the war of 1812. Professor SLOANE]

367-368—Seminar in later United States history. Professor DUNNING

370—Seminar in the expansion of Europe. 2 hours. Professor SHEPHERD

[381-382—Seminar in political philosophy. Professor DUNNING]

#### Summer Session

sA1—Europe in the Middle Ages: the chief political, economic, and intellectual achievements. 3 points. Dr. HUMPHREY

sA2—Modern and contemporary European history. 3 points. Dr. HUMPHREY

s13—American history, 1789-1848. 2 points. Professor BASSETT

s29—The French Revolution and the career of Napoleon. 2 points. Professor HAYES

s104—History of Greece; from the age of Pericles to the conquest of Asia by Alexander the Great. Professor SILL

s106—History of Rome: from the age of Augustus to the age of Constantine. Professor SILL

s122b—Medieval culture and the Renaissance. Professor KREHBIEL

s125—English history in the Middle Ages. Professor SCHUYLER

s151—History of western Europe, 1815-1870. Professor HAYES

s154b—The peace movement. Professor KREHBIEL

s161—American history; the formation of the constitution. Professor SCHUYLER

s167—American history; Civil War and reconstruction, 1861-1876. Professor BASSETT

#### Extension

eA1—The foundation of modern Europe. 3 points. Dr. HUMPHREY

eA2—Modern and contemporary history. 3 points. Dr. HUMPHREY

<sup>1</sup> Given at Union Theological Seminary.

eA7—Medieval history; the chief political, economic and intellectual achievements. 3 points. Mr. Fox

e11a-12a—English history. 2 points. Mr. GREEN

15-16—American history. 2 points. Professor SCHUYLER

e149-150—The French Revolution and the Napoleonic era. Professor MUZZEY

e155—Industrial history. The origins of European society. Professor SHOTWELL

e156—Industrial history. Social and industrial history of modern England. Professor SHOTWELL

### Equipment

The University Library contains many of the great published collections for the study of ancient, medieval, and modern history. The special library of history and political science numbers upwards of 150,000 volumes. The great libraries of New York, Astor, Lenox, and Tilden foundations, those of the New York and Long Island Historical Societies, and of the Bar Association are, under certain conditions, also accessible to students. Fuller information as to courses and opportunities for historical work is given in the *Announcement of the Division of History, Economics, and Public Law*, which may be obtained by applying to the Secretary of the University. Under the auspices of the Academy of Political Science, to which advanced students are eligible as members, opportunities are given for the discussion of questions of interest as presented in papers by specialists.

### Household Arts

The School of Practical Arts of Teachers College provides eighty courses in Household Arts Education, Nutrition and Food Economics, Household Chemistry, Physiological Chemistry, Foods and Cookery, Textiles and Clothing, Household Art, Household and Institutional Administration, and Nursing and Health. Part-time students are provided for by Special Classes. These courses and the Household Arts building and equipment are described in a special circular and in the *Announcement of the School of Practical Arts*. There is a summer session of the School.

### Industrial Arts

The School of Practical Arts of Teachers College provides fifty-four courses in Industrial Arts Education, Drawing and Design, Industrial Mathematics, Wood-Working, Metal-Working, Photography, Ceramics, Book-Binding, Library Economy, and Commercial Education. Special provision is made for part-time students by a large group of Evening Technical Courses. These courses and the Macy Manual Arts building and equipment are described in the special circular of the School and in

the *Announcement of the School of Practical Arts*. There is a summer session of the School.

### Hygiene and Preventive Medicine

*Associate:* WALTER BENSEL, M.D.

A course of thirty lectures on hygiene and preventive medicine.

52—Twice a week during the second half-year at 5 P.M., beginning in February, 1913.

DR. WALTER BENSEL will give the course of lectures.

### Latin

(See page 80)

## LAW

### Municipal or Private Law

*Professors:* ABBOTT, BURDICK, CANFIELD, GOODNOW, GUTHRIE, J. B. MOORE, KIRCHWEY, REDFIELD, MUNROE SMITH, STONE (*Executive Officer*), and TERRY

*Associates:* DORR, POWELL, and REYNOLDS

*Lecturer:* ARNOLD, HOLT

*Assistant:* WHITAKER

### Courses

*See introductory paragraphs, page 56*

101-102—Contracts. 4 hours. Professor TERRY

103—Criminal law. 3 hours. Professor STONE

105—Elements of law. 3 hours. Professor MUNROE SMITH

107—Pleading and practice I. 3 hours. Professor REDFIELD

108—Real and personal property I. 2 hours. Professor KIRCHWEY

110—Torts. 2 hours. Professor BURDICK

111—American constitutional law I. 1 hour. Professor GUTHRIE

201—Agency. 3 hours. Mr. REYNOLDS

202—Carriers. 3 hours. Mr. REYNOLDS

205—Domestic relations and the law of persons. 2 hours. Professor

ABBOTT

[206—Bankruptcy and insolvency.<sup>1</sup> 2 hours. Professor KIRCHWEY

207—Equity I. 3 hours. Professor ABBOTT

208—Trusts. 3 hours. Professor STONE

210—Negotiable paper. 3 hours. Professor BURDICK

[211—Insurance.<sup>2</sup> 2 hours. Mr. DORR

212—Federal jurisdiction. 2 hours. Mr. DORR

213—Pleading and practice II. 4 hours. Professor REDFIELD

215—Real and personal property II. 2 hours. Professor KIRCHWEY

216—American constitutional law II. 4 hours. Mr. POWELL

218—Quasi contracts. 3 hours. Professor ABBOTT

<sup>1</sup> Omitted during 1912-13.

<sup>2</sup> Omitted during 1913-14.

- 219-220—Sales of personal property. 2 hours. Professor BURDICK  
 Negotiable paper. 3 hours. Professor BURDICK  
 221-222—Corporations. 2 hours. Professor CANFIELD  
 223—Equity II. 3 hours. Professor STONE  
 225—Evidence. 4 hours. Professor KIRCHWEY  
 228—New York Trusts and Perpetuities. 2 hours. Professor CANFIELD  
 229—Partnership. 3 hours. Professor BURDICK  
 230—Mortgages. 3 hours. Professor STONE  
 231—Pleading and practice III. 3 hours. Professor REDFIELD  
 232—Suretyship. 2 hours. Professor ABBOTT  
 233-234—Real and personal property III. 2 hours. Professor ABBOTT  
 Wills and administrations. 3 hours. Professor REDFIELD  
 Conflict of laws. 1 hour. Professor J. B. MOORE  
 International law. 2 hours. Professor J. B. MOORE  
 Municipal corporations. 2 hours. Professor GOODNOW  
 Law of officers. 2 hours. Professor GOODNOW  
 Law of taxation. 2 hours. Professor GOODNOW

#### Special Courses

- English legal history. Mr. HAZELTINE  
 Admiralty.<sup>1</sup> 2 hours. Mr. DORR  
 Federal jurisdiction. 2 hours. Mr. DORR  
 Patent Law. 2 hours. Mr. HOLT  
 Law of mining and irrigation. 2 hours. Mr. ARNOLD  
 Trial evidence. 1 hour. Mr. DORR  
 Readings in the digest of Justinian. 1 hour. Professor MUNROE  
 Modern civil law. 3 hours. Professor MUNROE SMITH  
 History of European law. 3 hours. Professor MUNROE SMITH

#### Summer Session

- s1—Real and personal property I. 2 points. Professor KIRCHWEY  
 s2—Personal property I. 2 points. Professor KIRCHWEY  
 s3—Criminal law. 3 points. Professor GIFFORD  
 s4—Negotiable paper. 3 points. Professor W. U. MOORE  
 s5—Carriers. 3 points. Mr. DORR  
 s6—Domestic relations and the law of persons. 2 points. Professor GIFFORD  
 Code Pleading and Practice. 3 points. Professor DEE  
 Agency. 3 points. Professor CHARLES K. BURDICK  
 Bankruptcy and Insolvency. Professor DEE  
 Insurance. 2 points. Professor W. U. MOORE  
 s203—Constitutional law. 2 points. Mr. POWELL  
 s204—Constitutional law. 2 points. Mr. POWELL

<sup>1</sup> Omitted during 1912-13



## Public Law and Comparative Jurisprudence

*Professors:* GOODNOW, MOORE (J. B.), MUNROE SMITH (*Executive Officer*)

*Associate Professor:* BEARD

*Assistant Professor:* SAIT

*Instructor:* CRECRAFT

*Lecturer:* FOX

## I. Courses in Public Law

*A—Politics and Constitutional Law*

1—American federal government (in sections). 3 hours. Professor SAIT and Mr. CRECRAFT

2—American state and municipal government (in sections). 3 hours. Professor SAIT and Mr. CRECRAFT

4—(Identical with 1). Professor SAIT and Mr. FOX

5—(Identical with 2). Professor SAIT and Mr. FOX

[7—Contemporary problems of American federal politics. 4 hours. Professor SAIT]

[8—Contemporary state and municipal problems. 4 hours. Professor SAIT]

55—Party government in the United States. 3 hours. Professor SAIT and Mr. FOX

56—American state government. 3 hours. Professor SAIT and Mr. FOX

[101—Formation of the American constitutional system. Professor BEARD. (Identical with History 161.)]

[102—Development of the American constitutional system. Professor BEARD. (Identical with History 162.)]

103-104—Comparative politics and government. 2 hours. Professor SAIT

105—Party government in the United States. 2 hours. Professor SAIT

106—American state government. 2 hours. Professor SAIT

201—Introduction to constitutional law. 1 hour. Professor GUTHRIE

203-204—The constitutional law of the United States. 2 hours. Professor GOODNOW

301-302—Seminar in constitutional and administrative law. Professor GOODNOW

## Summer Session

s1—American federal government. 2 points. Prof. SAIT

s2—American state and municipal government. 2 points. Professor SAIT

s107—Contemporary federal and state problems. Professor SAIT

s203-204—Constitutional law. Mr. POWELL

## Subject B—International Law

- 120—History of American diplomacy. 2 hours. Professor J. B. MOORE  
 221—History of diplomacy. 2 hours. Professor J. B. MOORE  
 223-224—International law. 2 hours. Professor J. B. MOORE  
 321-322—Seminar in international law. 2 hours. Professor J. B. MOORE

## Subject C—Administrative Law

- 144—Municipal science and administration. 2 hours. Professor GOODNOW  
 [146—Municipal functions. Professor BEARD]  
 241—Law of officers (extraordinary legal remedies). 2 hours. Professor GOODNOW  
 245—Law of taxation. 2 hours. Professor GOODNOW  
 246—The law of municipal corporations. 2 hours. Professor GOODNOW  
 341-342—Seminar in constitutional and administrative law. Professor GOODNOW

## Subject D—Roman Law and Comparative Jurisprudence

- 161—Elements of law. 3 hours. Professor MUNROE SMITH  
 263—Roman law. 3 hours. Professor MUNROE SMITH  
 265—History of English law. 4 hours. Dr. HAZELTINE  
 266—History of European law. 3 hours. Professor MUNROE SMITH  
 268—Modern civil law of western Europe. 3 hours. Professor MUNROE SMITH  
 269-270—Conflict of laws. 1 hour. Professor J. B. MOORE  
 351—Seminar in English legal history. 2 hours. Dr. HAZELTINE  
 361-362—Seminar in legal history. 1 hour. Professor MUNROE SMITH  
 363-364—Seminar in comparative jurisprudence. Professor MUNROE SMITH

## Equipment

In addition to excellent working collections of constitutions, codes, session laws, judicial decisions, government reports, legal treatises, transactions of legal societies, and law journals of the principal foreign countries as well as of the United States, the Library of Columbia University offers special advantages to students of politics, public law, and comparative jurisprudence in the collections of Henry Livingston Thomas, late chief translator to the Department of State, of the Holland Society of New York, and of the Reform Club of the City of New York, of which the Columbia Library is the depository. The materials thus furnished are richly supplemented by those in the libraries of public institutions, learned societies, and civic organizations, particularly the Hispanic Society of America, with its unique collection of materials relating to the history, institutions,

and culture of Spain, Portugal, and Latin America, the Bar Association, and the Law Institute. To these libraries advanced students have access under favorable conditions.

### Public Lectures

Public lectures of special interest to students of politics and jurisprudence are maintained by specific endowments, such as the Beer lectures in political science, the Blumenthal lectures in politics, and the Carpentier lectures in law. Some of these lectures are given by distinguished foreigners, others by men prominent in public life in the United States.

### Manual Training

Fifty-four courses in Industrial Arts are offered under the auspices of Teachers College. For details see the *Announcement of the School of Practical Arts*, which will be sent without charge, upon application to the Secretary of the University.

(See also Shopwork, page 163)

### Materia Medica

(See page 142)

### Mathematics

*Professors:* COLE, FISKE, FITE, HAWKES, KASNER, KEYSER (*Executive Officer*), MACLAY, MITCHELL (H. B.), and SMITH (D. E.)

*Assistant Professors:* GROVE, SICELOFF and UPTON

*Instructors:* CURTIS, DINES, FISCHER, GRAVES, LENNES and REDDICK

*Assistants:* PFEIFFER and WILSON

*See introductory paragraphs, page 56*

### Courses

A1 or A4—Plane trigonometry and algebra. 3 hours. Professors FITE and SICELOFF, Drs. REDDICK and LENNES, Mr. MACDONALD and Dr. FISCHER

A2 or A3—Solid geometry. 3 hours. Professors HAWKE and SICELOFF, Dr. REDDICK, Mr. MACDONALD, and Dr. FISCHER

1 or 2—Algebra. 2 hours. Professors GROVE and SICELOFF, Drs. REDDICK and LENNES, Mr. MACDONALD and Dr. FISCHER

3 or 4—Analytical geometry. 3 hours. Professors MITCHELL, HAWKES, GROVE and SICELOFF, Drs. REDDICK and LENNES, Mr. MACDONALD and Dr. FISCHER

12—Mathematics of statistics. 3 hours. Professor GROVE

13—Differential equations. 3 hours. Dr. REDDICK

14—Higher algebra. 3 hours. Professor SICELOFF

- 10-11 or 15-16—Differential and integral calculus. 3 hours. Professors MACLAY, MITCHELL and HAWKES
- 17—Advanced calculus. 3 hours. Professor FITE
- 21—Advanced analytical geometry. 3 hours. Professor MACLAY
- [19—Projective geometry. Professor FITE]
- 20—Fundamental concepts in mathematics. 3 hours. Dr. LENNES
- 64-65 or 67-68—Differential and integral calculus. 5 hours. Professors FISKE, MACLAY, MITCHELL, FITE, HAWKES, GROVE and SICLOFF, Drs. REDDICK, and LENNES, Mr. MACDONALD and Dr. FISCHER
- 101-102—Modern theories in geometry. 3 hours. Professor KEYSER
- 105—Theory of numbers. 2 hours. Professor MACLAY
- 112—Modern higher algebra. 3 hours. Professor HAWKES
- [111-112—Modern higher algebra. Professor MACLAY]
- 115-116—History and significance of central mathematical concepts. 2 hours. Professor KEYSER
- 121—Differential equations. 3 hours. Dr. REDDICK
- 122—Differential equations. 2 hours. Professor MACLAY
- [122—Differential equations. Professor KASNER]
- (Mathematics 13 may be counted as a graduate course by those who also complete 122)
- 151-152—History of mathematics. 3 hours. Lectures and collateral reading. Professor SMITH
- 201-202—Introduction to the theory of functions of a real variable. 3 hours. Professor FISKE
- [203-204—The theory of functions of a complex variable. Professor FISKE]
- 205-206—Introduction to the theory of Functions. 3 hours. Professor COLE
- [212—Multiple algebras. 3 hours. Professor HAWKES]
- [216—Advanced theory of numbers. Professor MACLAY]
- [218—Infinite series. Professor FITE]
- 221-222—Theory of plane curves. 3 hours. Professor COLE
- 225—Integral equations. 2 hours. Professor KASNER
- 228—Calculus of variations. 3 hours. Professor FITE
- 251-252—History of mathematics. Lectures and collateral reading. 3 hours. Professor SMITH
- 305-306—Projective geometry. 3 hours. Dr. N. J. LENNES
- [307-308—Theory of groups. 3 hours. Professor COLE]
- 309-310—Functions defined by linear differential equations. 3 hours. Professor FISKE
- [311-312—The general theory of assemblages. 3 hours. Professor KEYSER]
- [313-314—Theory of invariants. 3 hours. Professor COLE]
- 323-324—The principles of mathematics. 3 hours. Professor KEYSER

[341-342—Elliptic functions. 3 hours. Professor MACLAY]  
 345-346—Seminar in differential geometry. 3 hours. Professor KASNER

### Summer Session

sA1—Logarithms and trigonometry. 2 points. Dr. REDDICK and Dr. DINES

sA2—Solid geometry. 2 points. Dr. REDDICK and Dr. DINES

s3—Analytical geometry. 3 points. Professor HASKELL

s5—Algebra. 2 points. Professors MACLAY and FITE

[s12—Mathematics of statistics. 3 points. Professor GROVE]

s15—Calculus: first part. 4 points. Professor SICELOFF

s16—Calculus: second part. 4 points. Professor GROVE

s101—Modern analytic geometry. Professor HASKELL

s203—Theory of functions of a complex variable. Professor MACLAY

s307—Theory of groups of finite order. Professor FITE

### Extension Teaching

eX2—Algebra. Course eX1 repeated. Second half-year. Mr. SIMPSON

eY2—Plane geometry. Course eY1 repeated. Second half-year. Mr. McMACKIN

eZ1—Plane geometry and trigonometry. Mr. McMACKIN

eA1—Trigonometry and algebra. 3 points. First half-year. Mr. PFEIFFER

also evenings in Brooklyn

also evenings in Newark

eA2—Solid geometry. 3 points. Mr. MULLINS

eA4—Trigonometry and algebra. Course eA1 repeated. 3 points. Second half-year. Mr. PFEIFFER

e1—Algebra. 2 points. Mr. MULLINS

e3—Analytical geometry. 3 points. Dr. ALTSCHILLER

e4—Analytical geometry. Course e3 repeated. 3 points. Second half-year. Dr. ALTSCHILLER

e15-16—Calculus. 3 points. Dr. ALTSCHILLER

eX1—Algebra, elementary and intermediate course. First half-year. Mr. SIMPSON

eY1—Plane geometry. First half-year. Mr. McMACKIN

### Equipment

In connection with the Department of Mathematics and in addition to the regular library facilities there is a large and fully equipped reading-room, 108 Library, in which are available the current numbers of over one hundred and fifty mathematical journals and periodicals.

The laboratory equipment of the department has been greatly increased. Recent acquisitions of mathematical models and instruments include the



famous collections of Wiener and Schilling. Room 503 Fayerweather has been set apart as a mathematical laboratory and model room.

Teachers College is well supplied with models and apparatus for use in teaching mathematics in all grades, from the kindergarten through the high school, together with various instruments for mechanical computation, including a Stanley arithmometer. The large collection of instruments, autographs, portraits, and other material illustrating the historical development of mathematics, the property of Professor Smith, is placed at the disposal of the students, as is his extensive library on the history and teaching of the subject. Arrangements may be made by which advanced students in the history of mathematics may have access to the library of George A. Plimpton, Esq., which is particularly rich in manuscripts, incunabula, and sixteenth-century works on the subject. The department has a large collection of stereopticon slides illustrating many important manuscripts and early works from this and other libraries.

### Mechanical Engineering

*Professors:* LUCKE (*Executive Officer*) and RAUTENSTRAUCH

*Assistant Professors:* PARR, PIGOTT and THOMAS (C. W.)

*Associates:* HALSEY, LONGACRE, NICKEL and MOSS

*Instructors:* HERRICK, THURSTON and WIESER

#### Courses

*See introductory paragraphs, page 56*

11-12—Steam-power machinery. 3 hours and 1 afternoon, second half-year. Professors LUCKE, PARR, and PIGOTT

13-14—Steam-power machinery, shorter course. 3 hours. Professors LUCKE and PIGOTT

17-18—Engineering thermodynamics. 2 hours. Professor LUCKE and Mr. THURSTON

19-20—Engine design. 3 hours and 2 afternoons. Professor RAUTENSTRAUCH

21—Gas-power machinery. 4 hours and 1 afternoon. Professor LUCKE, and Mr. THURSTON

25-26—Steam-power. 2 hours and 1 afternoon first half-year, and 2 hours and 2 afternoons second half-year. Professor PIGOTT

31-32—Standard tests and research methods. 1 hour and 1 afternoon. Professor PARR

33—Standard tests and research methods—Continuation of Course 31-32. 2 hours and 1 afternoon. Professor PARR

35-36—Kinematics of machinery. 1 afternoon. Professor THOMAS

37—Machine design, short course for students in Chemical Engineering. 1 hour and 2 afternoons. Professor RAUTENSTRAUCH

- 39-40—Machine design. 3 hours and 1 afternoon, first half-year, 2 hours and 2 afternoons, second half-year. Professor RAUTENSTRAUCH
- 41—Machine design. Short course for students in Civil and Electrical Engineering. 1 hour and 1 afternoon. Professor THOMAS
- 45 or 46—Water-power machinery. 3 hours. Mr. HERRICK
- 50 or 53—Steam turbines. 3 hours. Professor PIGGOTT
- 52—Organization and management. 3 hours. Professor RAUTENSTRAUCH
- 54—Shop processes: tools and time study. 2 hours. Mr. HALSEY
- 56—Water-power installations. 1 hour. Mr. HERRICK
- 59—Empiric design. 2 hours and 1 afternoon. Professor THOMAS
- 60—Hydraulic laboratory. 1 afternoon first half of second half-year. Mr. HERRICK
- 63—Hydraulic laboratory. 1 afternoon. Mr. HERRICK
- 64—Air machinery. 2 hours. Mr. LONGACRE
- 66—Elevators and conveyors. 1 hour. Mr. MOSS
- 70—Pumping machinery. 2 hours. Mr. NICKEL
- 72—Gas-power machinery—Selections from 22. 2 hours and 1 afternoon. Professor LUCKE and Mr. THURSTON
- 74—Gas-power machinery—Selections from 22. 2 hours. Professor LUCKE
- 76-77—Standard tests—Selections from 31-32, 33. Professor PARR and Mr. HERRICK
- 78—Kinematics—Selections from 36. 1 afternoon. Professor THOMAS
- 80—Experimental mechanical laboratory. 1 hour and 1 afternoon. Professor PARR
- 82—Heating and ventilation. 3 hours.
- 94s—Shop and factory, second summer work. Professor THOMAS
- 96s—Steam-power plant, third summer work. Professor PIGOTT
- 97—Mechanical apparatus for chemical factories. 5 hours for 10 weeks in first term. Professor THOMAS

### Equipment

This department is well equipped with lecture-rooms, large collections of models and specimens to illustrate the lectures, and drafting-rooms provided with large numbers of blue-prints, photographs, and catalogues of standard and special machinery supplied by manufacturers; but the departmental equipment is chiefly remarkable in the excellent facilities available for the prosecution of experimental work, both for undergraduate students and graduate research. This experimental equipment includes all the standard and many special forms of measuring instruments, means for their calibration, and an unusually large collection of full-size standard machinery, covering practically every important class.

### Metallurgy

*Professors:* WALKER (*Executive Officer*) and HOWE

*Associate Professor:* CAMPBELL

*Assistant Professors:* HALL and KERN

*Assistant:* BANKS

#### Courses

*See introductory paragraphs, page 56*

81 or 182—Assaying—Ores and metallurgical products. 2 hours and 3 afternoons. Professor HALL

101—General metallurgy. 3 hours, first half of term. Professor KERN

111—Metallurgy of copper. 3 hours, second half of term. Professor KERN

118—Metallurgy of copper—Advanced course. 1 hour. Professor KERN

122—Metallurgy of lead, silver, gold, and zinc. 3 hours. Professor WALKER

128—Metallurgy of lead, etc.—Advanced course. 1 hour. Professor WALKER

131—Metallurgy of iron and steel—Shorter course. 1 hour. Professor CAMPBELL

134—Metallurgy of iron and steel—Longer course. 2 hours. Professors WALKER and CAMPBELL

138—Metallurgy of iron and steel—Advanced course. 1 hour. Professor HOWE

141—Electrometallurgy. 1 hour. Professor KERN

148—Electrometallurgy—Advanced course. 1 hour. Professor KERN

151—Constitution and properties of alloys. 2 hours. Professor CAMPBELL

155-156—Metallography of iron, steel, and industrial alloys. Total of 6 lectures and 3 or more afternoons laboratory. Professor CAMPBELL

158—Advanced course on constitution and property of alloys. 1 hour. Professor CAMPBELL

62s—Summer course in non-ferrous metallurgy. Professor KERN

64s—Summer course in ferrous metallurgy. Professor CAMPBELL

66s—Summer course in non-ferrous metallurgy. Professors WALKER and KERN

82s—Summer school in assaying. Professor HALL

72—Metallurgical laboratory. 10 consecutive afternoons. Professors CAMPBELL and KERN

171-172—Metallurgical laboratory. 5 afternoons. Professors WALKER CAMPBELL, and KERN

173-174—Advanced metallurgical laboratory

175—Metallurgical investigation. 1 hour. Professor WALKER

77—Metallurgical plant construction. Professor WALKER

201-202—Special courses in pyrometry, the microstructure of metals and alloys, the chemistry of roasting processes, etc., consisting of personal instruction and original experimental investigation. Professors WALKER, CAMPBELL, and KERN

METALLURGICAL EXCURSIONS—During the term the students see, at the metallurgical works near the city, iron blast furnaces, Bessemer and open-hearth steel making, lead and copper smelting, copper Bessemerizing and refining by furnace and electrolytic methods, the desilverizing of base bullion, and the parting and refining of gold and silver by electrolytic and acid methods.

### Equipment

The special equipment of the department contains many large lecture diagrams showing the various metallurgical appliances, and the sequence of metallurgical processes, besides many models, drawings, and apparatus for lecture demonstrations. There is also a collection of about 3000 specimens of ores, metals, and metallurgical products, and a rapidly forming collection of microscopic sections and photomicrographs of metals and alloys.

An Analytical Laboratory is open to the students in metallurgy. The Assay Laboratory is provided with crucible and muffle furnaces, both gas and coal, for the fire assay of ores; also with crushing, pulverizing, and sampling machinery, balance-room, storeroom, and well-equipped working desks. It also contains all the apparatus necessary for the wet assay of silver bullion and for laboratory tests of ores.

In the Metallurgical Laboratory there are enough Le Chatelier thermoelectric pyrometers to give each student the exclusive use of one throughout his course, and many others of various kinds, some of great precision, some with autographic attachments, etc. For the microscopic study of metals there are many special microscopes, with appliances for polishing, sclerometers, a drop-testing machine, a Fremont drop-testing machine, special testing machines for metals, ammeters, etc.

For Analytical Metallurgy there are many special furnaces heated by electricity or gas, a small power-driven roll-train, etc. For Applied Metallurgy there are, besides the common furnaces, special crucible melting furnaces, muffles, etc., two small reverberatory roasting furnaces, a set of lixiviating and precipitating vats, amalgamating pans, kettles for desilverizing lead, a chlorinating barrel, Abbé pebble-mill, Abbé jar-mill, storage batteries, voltmeters and ammeters for electrolysis, and a working stock of ores, refractory materials, fluxes, alloys, iron, and of very many varieties of steel.

The laboratory gives advanced students and practitioners unusual advantages for investigating accurately the scientific and many of the economic problems of metallurgy.



The Metallurgical Department has a special metallurgical library of about sixteen hundred volumes.

## Mineralogy

*Professor:* MOSES (*Executive Officer*)

*Assistant Professor:* LUQUER

*Instructor:* GARDNER

*Assistant:* BRUCE

### Courses

*See introductory paragraphs, page 56*

1-2—Descriptive and determinative mineralogy. 3 hours lectures, 2 afternoons laboratory, first term; 3 hours lectures, 1 afternoon laboratory, second term. Professors MOSES and LUQUER, Mr. GARDNER, and Mr. BRUCE

3-4—General mineralogy. 2 hours lectures, 1 afternoon laboratory. Professor MOSES

5—The minerals of building-stones. 2 hours lectures, and 1 afternoon laboratory. Professor LUQUER and assistants

6—Optical mineralogy—minerals in rock sections. 2 afternoons laboratory for two months. Professor LUQUER and assistants

7-8—Descriptive and determinative mineralogy. 3 hours lectures, 1 afternoon laboratory.

10—Mineralogy and crystallography. 2 hours lectures, 1 afternoon laboratory. Professor MOSES

15-16—Mineralogy—Minerals important in the chemical industries. 3 hours afternoon laboratory. Professor MOSES and assistants

207-208—Optical mineralogy. 1 hour lecture, 1 afternoon laboratory. Professor LUQUER

209-210—Physical crystallography. 1 hour lecture, 1 afternoon laboratory. Professor MOSES

211-212—Mineralogy—Study of assigned subject. 12 hours per week for two years. Professor MOSES

H214—Optical mineralogy. Lectures and laboratory work. 2 hours. Professor LUQUER

### Summer Session

s1—Common minerals. 3 points. Lectures and laboratory lectures. Professor MOSES

s102—Methods of studying crystals. 2 points. Lectures and laboratory lectures. Professor MOSES

### Equipment

The work of the students in the college courses and in general mineralogy is performed in the lecture-room, in the blowpipe laboratory, and in the



adjoining conference-room, in which are the student collections of crystal models and minerals and several thousand unlabeled specimens used in determinative work. The department possesses also about 1200 sections of minerals and rocks, and 1500 crystal models in wood and glass. Students in optical mineralogy use a separate room with north light, and for crystal measurements and monochromatic light determinations there is provided a large dark-room.

The Egleston Mineralogical Museum contains about 30,000 labeled specimens, and includes a systematic collection; an economic collection of ores, building materials, and minerals used in chemical industries; a collection illustrating the genesis and alteration of minerals; a collection illustrating the characters of minerals; and small collections of artificial minerals and New York City minerals.

5103—Determining crystal constants (laboratory). 2 points. Professor MOSES

### Mining

*Professors:* MUNROE (*Executive Officer*) and PEELE

*Assistant Professor:* KURTZ

*Instructor:* JUDD

### Courses

*See introductory paragraphs, page 56*

- 51—Excavation and tunnelling. 3 hours. Professor PEELE
- 52—Boring and shaft-sinking. 2 hours. Professor PEELE
- 53—Excavation, tunnelling, boring, and shaft-sinking. Condensed from courses 51 and 52 for students in Civil Engineering. 2 hours. Mr. JUDD
- 54—Exploration, development, and methods of working. 3 hours. Professor MUNROE
- 56—Mine engineering. 3 hours. Professor MUNROE
- 71-72—Mine plant. 3 hours. Professor PEELE
- 73—Mine constructions. 1 hour. Professor PEELE
- 75—Design of mine plant. 4 afternoons. Professors PEELE and KURTZ and Mr. JUDD
- 77-78—Graduating thesis or project. Professor PEELE
- 80—Mill constructions. 1 hour. Professor KURTZ
- 81—Ore dressing, milling, and the mechanical preparation of coal. 4 hours. Professor MUNROE
- 82—Ore-dressing laboratory. Afternoon work for three weeks. Professors MUNROE and KURTZ and Mr. JUDD
- 91—Mine administration. 2 hours. Professors MUNROE and KURTZ
- 94—Mining law. 2 hours. Professor KURTZ

- 95—Mining conference. 1 hour. Mr. JUDD  
58—Summer class in mine surveying. 1 week. Professors MUNROE and KURTZ and Mr. JUDD  
59—Summer courses in practical mining. 6 weeks. Professors PEELE and KURTZ and Mr. JUDD

The summer course includes four to five weeks' detailed study of the plant and methods of working at some important mine or mines selected for the purpose; and one to two weeks of excursions to other mines and mining regions. Arrangements are also made by which students in small groups may substitute, for the above, independent study at different mines under the general direction of the department.

#### Graduate Courses

Special courses, consisting of personal instruction, reading, and experimental investigations, will be arranged for advanced students according to their individual needs and ability. These investigations will be made at mines and dressing works, either in connection with the summer school or elsewhere as assigned, with additional work, as required, in the library and in the laboratories of the department. These courses vary in difficulty and in the amount of time necessary according as the student is a candidate for the degree of A.M. or Ph.D. and according as he pursues mining as a major or a minor subject. The time required is governed by the rule that a course or courses should occupy about 20 hours a week (outside reading and study included) if taken as a major subject, and about 10 hours a week if taken as a minor subject. Any of the following courses may be offered for the degree of A.M. by students who have had the appropriate prerequisites:

101-102—Mining and ore dressing—Mining 54, 81, and 82. 4 hours, with laboratory work and reading as required.

103-104—Mine engineering—Mining 54, 56, and 91. 4 hours lectures and reading as required.

105-106—Design of mine plant—Mining 71-72, 73, and 75. 3 hours and 4 afternoons draughting-room work.

107-108—Design of ore-dressing works—Mining 80, 81, 82, 73, and 75, with 1 hour conference additional, first half-year. 3 hours and 5 afternoons laboratory and draughting-room work.

Under the regulations for the degrees of A.M. and Ph.D. the following courses may be offered by graduate students who have had all the undergraduate courses in Mining or their equivalent:

201-202—Methods of mining—Critical study of methods used in some mining region, or for a certain class of deposits.

203-204—Mining plant—Critical study of rock drilling, or coal cutting, or hoisting, or haulage, or ventilating plant at some mine or mines.

207-208—Ore dressing—Critical study of some detail of the ordinary dressing methods.

213-214—Economic studies in mining—Study of existing conditions affecting the production and cost of some mineral or metal.

### Equipment

The lectures on mining are illustrated by sets of books containing 120,000 blue-prints from negatives made for the purpose. There are a sufficient number of these books to enable each student to have the use of one or more for reference during the lectures and for home study. These blue-prints have many advantages over the usual form of lecture illustrations by lantern slides or wall diagrams. The latter, however, are used when necessary to supplement the blue-prints.

The University Library contains sets of the transactions of all mining, metallurgical, and engineering societies, and of the more important periodical publications on these subjects. There is also a large collection of books on mining, and all new publications of value are added as they appear. In addition, a small departmental reference library has been created, which is accessible to students at all times.

The subject of mining is illustrated by collections as follows: Maps of coal and metal mines of this and other countries. Working drawings, diagrams, and photographs of mine plant, and of mining and dressing machinery. Models of mines and parts of mines and of mine plant. Mining tools: picks, shovels, hammers, drills, blasting apparatus, lamps, safety-lamps, anemometers, and machine drills. Ores and dressing products from typical works in this and other countries. Surveying instruments: geological compasses and clinometers, attraction compasses, dipping needles, hanging compasses and arcs, transits, lamp signals, rods, and apparatus for plumbing and measuring shafts.

The basement and sub-basement of the School of Mines are equipped as laboratories for the Department of Mining. These laboratories serve four purposes: 1. To illustrate the physical laws bearing on mineral separation. 2. To afford opportunity for quantitative working tests. 3. To train students in the adjustment and operation of concentrating machinery, and in the making of efficiency tests under working conditions. 4. To give advanced students and others all necessary facilities for original investigation.

Many coal, iron, and other mines, slate and stone quarries, and metallurgical works are easily accessible. Within a radius of one hundred miles of New York City may be studied numerous examples of the best practice in mining and metallurgy under most varied conditions, and some of the most modern and effective mining and dressing machinery and smelting plants in the country. The excursions of the Summer Class in Mining extend as far as the iron, copper, zinc, lead, silver, and gold

regions of Michigan, Missouri, Montana, Colorado, Arizona, Utah, and California.

The metropolitan situation of the School renders it possible to present, also, as parts of the regular courses in mining, special lectures by prominent engineers. The list of such lecturers and more detailed information as to the courses offered and as to the facilities for instruction will be found in the *Announcement of the Schools of Mines, Engineering, and Chemistry*.

### Music

*Professor:* RUBNER (*Executive Officer*)

*Assistant Professor:* MASON

*Associate:* WARD

*Conductor of Chorus:* HALL

### Courses

*See introductory paragraphs, page 56*

- 1-2—History of music. 2 hours. Professor MASON
- 3-4—History of music. 2 hours. Professor MASON
- 7-8—Harmony. 3 hours. Mr. WARD
- 9-10—Advanced harmony and elementary form. 2 hours. Professor MASON
- 11-12—Counterpoint. 2 hours. Professor MASON
- 13-14—Composition and orchestration. 2 hours. Professor RUBNER
- 31-32—University orchestra. 2 hours. Professor RUBNER
- 33-34—University chorus. Mr. HALL
- 101-102—Advanced composition, orchestration, and symphonic form. 2 hours. Professor RUBNER

### Summer Session

sX—Chorus. WALTER HENRY HALL

s1-2—History and appreciation of music. 2 points. Professor COLE

s7-8—Harmony. 2 points. Professor COLE

s10—Counterpoint. 2 points. Professor COLE

s35—Sight-singing, its history and psychology. 2 points. Mr. BECKER

### Extension Teaching

eX1-X2—Vocal training for service in choirs. 1½ points. Mr. NICHOLS

e33-34—University chorus. 2 points. Mr. HALL

eZ1-Z2—Sight-reading and accompanying for key-board instruments. 2 points. Mr. LAMOND

e53-54—Introductory harmony. 2 points. Mr. KRAFT

Fourteen courses in teaching and supervision of music are offered at Teachers College. (See the *Announcement of Teachers College*.)



### Equipment

A collection of music and of books of reference is placed at the disposal of students. It includes the complete works of various composers, many orchestral and opera scores, the piano-forte classics, and vocal music, besides many theoretical, historical, and biographical works. The private library of the Anton Seidl, consisting of 1220 scores, was presented to the University and has been placed in the rooms of the School of Music. The department has also a collection of instruments for the use of students participating in the University Orchestra.

The Department of Music offers numerous concerts and recitals to the University. These include various concerts of chamber music, organ recitals, an annual recital of original compositions by students in the department, and the regular concerts of the University Orchestra and the University Chorus.

### Nature Study

(See Botany and Zoölogy)

Five courses in nature study for elementary and high schools are offered under the auspices of Teachers College. For details see the *Announcement of Teachers College*.

### Neurology

*Professor of Neurology:* STARR (*Executive Officer*)

*Professor of Psychiatry:* PETERSON

*Associate Professor:* HUNT (J. R.)

*Associates:* GREGORY and SCRIPTURE

*Instructors:* HABERMAN and HUNT (E. L.)

*Clinical Assistants: Neurology*—ATWOOD, BELING, BRILL, CLARK (J. E.), FISK, GARRETSON, HOLMES, MACRAE, MACUMBER, McENTEE, POU; *Psychiatry*—BRILL, HAVILAND, and POU

### Courses

*See introductory paragraphs, page 56*

51—Neurology. Didactic lectures with lantern demonstration on nervous diseases. 1 hour. Professor STARR

53-54—Clinical lectures. 1 hour. Professor STARR

55-56—Practical instruction in the methods of examination of nervous patients in electro-diagnosis and electro-therapeutics is given in sections at the Vanderbilt Clinic. 2 hours for 8 weeks. Professor HUNT, Drs. E. L. HUNT, SCRIPTURE, and HABERMAN

57—Psychiatry. Clinics at Bellevue Hospital. 1 hour. October, November, and December. Professor PETERSON

59-60—Practical instruction in examination and diagnosis of insane patients is given at Bellevue. Dr. GREGORY



61-62—A research laboratory for the study of border-line cases at the Vanderbilt Clinic by Dr. SCRIPTURE

64—Lectures on neurological subjects—6 lectures, one hour each. Professor J. RAMSEY HUNT

### Nursing and Health

Sixteen courses in Nurses' Education, Hospital Administration, School and Municipal Nursing are provided by the School of Household Arts of Teachers College and described in the special circular of that School and of the Department of Nursing and Health.

### Obstetrics

*Professors:* CRAGIN (*Executive Officer*) and PAINTER

*Associate Professor:* VOORHEES

*Associate:* DAVIS

*Instructor:* LYON

*Assistant:* SICARD

### Courses

*See introductory paragraphs, page 56*

51—Theory and practice. 3 hours, two didactic and one clinical. Professor CRAGIN

53-54—Recitations and demonstrations. 1 hour. Professor VOORHEES

55-56—Practical instruction at the Sloane Hospital for Women. Dr. LYON

57-58—Out-patient service at the New York Nursery and Child's Hospital. Professor PAINTER and Drs. DAVIS and SICARD

### The Sloane Hospital for Women

The Sloane Hospital for Women is situated at the corner of Fifty-ninth Street and Amsterdam Avenue, and is equipped with all modern conveniences for the care of both obstetrical and gynecological cases.

The wards of the hospital furnish one hundred and seven obstetrical beds, one hundred babies' cribs, and twenty-four gynecological beds. In addition there are forty-two private-room beds and ample accommodations for the house staff, nurses, and students.

The service of the hospital is under the exclusive direction of the Professor of Obstetrics and Gynecology in the College of Physicians and Surgeons, an Instructor in Obstetrics and an Instructor in Gynecology being Resident Officers. There are two large operating rooms, one for obstetrics and one for gynecology, each equipped with all modern appliances for dealing with these conditions, and here Professor Cragin holds weekly clinics throughout the year,

With the completion of the Gynecological Department of the Sloane Hospital, the operative material of the large gynecological service of the Vanderbilt Clinic is made available for teaching purposes, so that now students of the College of Physicians and Surgeons receive on the College grounds practical instruction, not only in normal and complicated obstetrics and the care of young babies, but in the treatment, operative and palliative, of all diseases of the female pelvic organs.

## Oriental Languages

### CHINESE

*Professor:* HIRTH

Courses 101-102, 103-104, and 105-106, are open to Seniors in Columbia College

*See introductory paragraphs, page 56*

101-102—Elementary course—Study of Chinese characters and language. 3 hours. Professor HIRTH

103-104—Beginner's course in the Mandarin dialect. 2 hours. Professor HIRTH

105-106—History, language, literature, government, art, and social life of the Chinese. 2 hours. Professor HIRTH

201-202—Analysis and translation of easy documents written in the Chinese modern business style. 2 hours. Professor HIRTH

203-204—Analysis and translation of easy literary texts. 2 hours. Professor HIRTH

205-206—Helps and keys in Chinese literature. 2 hours. Professor HIRTH

301-302—Seminar for the study of Chinese government matters. Professor HIRTH

303-304—Seminar for historical studies in Chinese literature. Professor HIRTH

305-306—Seminar for the study of Chinese art, industry, and general culture. Professor HIRTH

### INDO-IRANIAN LANGUAGES

*Professor:* JACKSON

*Lecturer:* YOHANNAN

#### Courses

*See introductory paragraphs, page 56*

101—Sanskrit, first course. Grammar and reading of texts. 3 hours. Professor JACKSON

102—Sanskrit, second course. Reading of texts. 2 hours. Professor JACKSON

103—Avestan, first course. Grammar and reading of texts. 2 hours. Professor JACKSON

104—Avestan, second course. Reading of texts. 2 hours. Professor JACKSON

105—Sanskrit, advanced course. 2 hours. Professor JACKSON

106—Sanskrit, advanced course. 2 hours. Professor JACKSON

107—Modern Persian, introductory course. 2 hours. Dr. YOHANNAN

109-110—Modern Persian, second course. 2 hours. Dr. YOHANNAN

109—History of India and of Persia. 2 hours. Professor JACKSON

201-202—Avestan, advanced course. 2 hours. Professor JACKSON

203-204—Pali, elementary course. 1 hour. Professor JACKSON

205—Old Persian cuneiform inscriptions. 1 hour. Professor JACKSON

206—Pahlavi, introductory course. 1 hour. Professor JACKSON

207-208—Sanskrit literature. 1 hour. Professor JACKSON

209—Zoroastrian Gathas. 1 hour. Professor JACKSON

210—Zoroaster and Buddha, their life and teachings. 1 hour. Professor JACKSON

211-212—Modern Persian, second-year course. 2 hours. Dr. YOHANNAN

301-302—Indo-Iranian seminar. Professor JACKSON

#### Armenian

213-214—Principles of the grammar with selected readings. 2 hours. Dr. YOHANNAN

#### Turkish

215-216—Principles of the grammar. 2 hours. Dr. YOHANNAN

217-218—Advanced course in Turkish. 2 hours. Dr. YOHANNAN

219-220—Exercises in Turkish conversation and in the reading of Turkish newspapers. 2 hours. Dr. YOHANNAN

#### The Science of Language

111-112—Introduction to the study of language. 2 hours. Professor JACKSON, in coöperation with Professors BOAS (American languages), FARRAND (linguistic pathology), GOTTHEIL (Semitic), HALLOCK (acoustics), HIRTH (Chinese), KRAPP (English), LODGE (Latin), PERRY (Greek), PRINCE (Sumerian and Egyptian), REMY (Germanic and special linguistic phenomena), TODD (Romance).

113-114—Types of language. 2 hours. First half-year: Indo-European and Semitic languages. Second half-year: American and Central and Eastern Asiatic languages. The Professors of the various departments concerned.

#### Public Lectures

A course of public lectures on the literature, antiquities, and religion of India and Persia is given each year.

#### SEMITIC LANGUAGES

*Professors:* GOTTHEIL (*Executive Officer*) and PRINCE

*Lecturers:* KOENIG and VANDERBURGH

## Courses

*See introductory paragraphs, page 56*

101-102—Biblical Hebrew, elementary course. 2 hours. Professor GOTTHEIL and Dr. KOENIG

103—Biblical Hebrew, second course. 2 hours. Professor PRINCE

103A—Biblical Hebrew, second course. Poetry. Dr. KOENIG

104—Biblical Hebrew, third course. The book of Hosea. 2 hours. Professor GOTTHEIL

105—Biblical Hebrew, third (lecture) course. Semitic archaeology and its bearings upon the study of the Bible. 2 hours. Professor GOTTHEIL

## Union Theological Seminary

1-2—The history, literature, and religion of the Old Testament in outline. 2 hours. Professor F. BROWN

33—Exegetical class. Psalms. 2 hours. Professor BEWER

106—Textual criticism of the Old Testament. 2 hours. Professor BEWER

95-96—Seminar: Jewish history after the exile. 2 hours. Professor BEWER

## Rabbinical Hebrew

107-108—Hebrew poetry of the Spanish School. 2 hours. Professor GOTTHEIL

109-110—Selected readings from the Talmud, Treatise Berachoth. 2 hours. Professor GOTTHEIL

[201—Selected readings from Hebrew historical works of the Middle Ages. 2 hours. Professor GOTTHEIL]

## Epigraphy

[203—Interpretation of the Phoenician inscriptions, with an introduction to Semitic palaeography and the history of the alphabet. 2 hours. Professor GOTTHEIL]

[204—Interpretation of the Aramaean inscriptions of Sinjirli. 2 hours. Professor GOTTHEIL]

205—Interpretation of the Sabaeen and Himyaritic inscriptions contained in the *Corpus Inscriptionum Semiticarum*, vol. iv. 1 hour. Professor GOTTHEIL

## Assyrian

111—Elementary course. 2 hours. Professor PRINCE

112—Second course—Study of the Syllabary with readings from Delitzsch's *Assyrische Lesestücke* (4th ed., 1901). 2 hours. Professor PRINCE

209—Third course—Study of texts. 2 hours. Professor PRINCE

209A—Third course—Readings. Dr. VANDERBURGH

210—Fourth course—Study of texts. 2 hours. Professor PRINCE

210A—Readings from Bilingual texts. 1 hour. Dr. VANDERBURGH

211—Advanced course—Sumerian Lexicography. 2 hours. Professor PRINCE

212—Advanced course—Sumerian hymns from cuneiform texts in the British Museum. 2 hours. Professor PRINCE

#### Arabic

113—Elementary course. 2 hours. Dr. KOENIG

114—Second course. 2 hours. Dr. KOENIG

215-216—Modern Arabic, Dialect of Egypt. Professors GOTTHEIL and PRINCE

213—Advanced course—The prolegomena of Ibn Khaldun (Semitic study series, No. 4), with special syntactical studies. 2 hours. Professor GOTTHEIL

214—Advanced course—Selections from the Sahih of al-Bukhari. 2 hours. Professor GOTTHEIL

#### Syriac

115—First course. 2 hours. Dr. KOENIG

116—Second course. 2 hours. Dr. KOENIG

117—Third course. 2 hours. Professor GOTTHEIL

118—Fourth course. 2 hours. Professor GOTTHEIL

#### Ethiopic

216-217—Principles of the grammar, and reading of extracts. Professor GOTTHEIL

#### Oriental History

119—The ancient history of Western Asia from the earliest times until the period of Cyrus the Persian. Professor PRINCE

This course is identical with History 109

120—The rise of Arabian civilization and the spread of Mohammedanism. 2 hours. Professor GOTTHEIL

This course is identical with History 104

[122—Political and social evolution of Modern Turkey and Egypt. 2 hours. Professor GOTTHEIL]

This course is identical with History 154

123-124—Lectures on Arabic literature. 2 hours. Dr. KOENIG

#### Semitic Seminar

301-302—Study of current questions in Semitic philology and history with especial reference to modern methods of research. Professors GOTTHEIL and PRINCE

#### Egyptian

218—Elementary course in Coptic. 1 hour. Professor PRINCE

[219—Egyptian hieroglyphs and advanced Coptic. Professor PRINCE]



## Pathology

*Professor:* MACCALLUM (*Executive Officer*)

*Assistant Professors:* LARKIN and STEWART

*Associates:* LAMBERT, LEVIN, and PAPPENHEIMER

*Instructors:* HARVEY and HUMPHREYS

*Assistants:* LAMB and SOPER

### Courses

*See also introductory paragraphs, page 56*

52—General pathology. 3 hours first half-term, 9 hours second half-term. Professors MACCALLUM and STEWART, and Drs. LAMBERT, PAPPENHEIMER, and HARVEY

54—Conference in general pathology—Recitation or conference dealing with subjects studied during the preceding week. 1 hour. Professor MACCALLUM

55-56—Gross pathological anatomy—Demonstration of autopsy material. 2 hours. Professors MACCALLUM, STEWART, and others

57-58—Autopsy technique. Twice a week in different hospitals. Professors MACCALLUM, STEWART, and LARKIN, and Dr. PAPPENHEIMER and others

59-60—Advanced pathology and research

61—Experimental pathology. Twice a week in the pathological laboratory

63-64—Clinical and pathological conference. 1½ hours for 12 weeks. Professors JANEWAY, MACCALLUM, STEWART, PAPPENHEIMER, LONGCOPE and others

65—Optional pathological anatomy of the diseases of children. Professor MACCALLUM

### Equipment

The Department of Pathology occupies the greater part of the fourth floor of the north wing of the College building, together with large class laboratories, amphitheatre, photographic rooms, etc., on the fifth floor. On the roof there is commodious accommodation for animals, together with small special rooms for experimental work.

On the fourth floor there are, besides the rooms devoted to the staff, large rooms with abundant desk room for special workers, several specially equipped operating rooms for aseptic experimental work, a small chemical laboratory, the museum, preparation rooms, cold storage, etc. Two rooms on this floor are occupied by the library, which is accessible to workers in this and related departments.

The entire space is amply lighted, fully furnished, and equipped with apparatus necessary for routine teaching and special research.

The Museum of Pathology is made use of in the work of this department, both for the instruction of medical students and as a place of deposit for specimens showing new or rare forms of lesions.

### Pharmacology, Materia Medica, and Therapeutics

*Professor of Applied Therapeutics:* LAMBERT (*Executive Officer*)

*Professor of Hydrotherapy:* BARUCH

*Assistant Professor:* WILLIAMS (W. R.)

*Associates:* BASTEDO, LIEB, and PATTERSON

*Instructors:* CLASS, HABERMAN, HALE, SHRADY, and SCHULMAN

*Assistants:* BOYD and HUTTON

*Clinical Assistants in Applied Therapeutics:* ADAMS, BARTHOLOW, BURNHAM, BECK (B. J.), BECK (S.), DEVOL, HEATON, HUMPHREYS, JANVRIN

*Clinical Assistant in Hydrotherapy:* WITTON

#### Courses

*See introductory paragraphs, page 56*

51—Conferences on applied therapeutics. 1 hour. Professor LAMBERT

53-54—Clinical instruction in therapeutics. 13 hours for 8 weeks, at the Vanderbilt Clinic. Professor LAMBERT and Drs. HALE, SCHULMAN, HABERMAN, CLASS, BOYD, HUTTON, and CUSSLER

55-56—Recitations on general therapeutics. 2 hours. Professor WILLIAMS

57-58—Lectures on the principles of pharmacology and therapeutics. 1 hour. Professor WILLIAMS, Drs. PATTERSON and FOSTER

59-60—Lectures on materia medica, pharmacology, and therapeutics. 2 hours. Dr. BASTEDO

61—Practical instruction in the pharmaceutical laboratory. 2½ hours. Dr. BASTEDO

62—Laboratory course in experimental pharmacology. 2 hours. Dr. LIEB

63-64—Recitations in materia medica and pharmacology. 2 hours. Dr. LIEB

70—Lectures on hydrotherapy. 1 hour. Professor BARUCH

71-72—Practical instruction in hydrotherapy. Eight 2-hour exercises. Professor BARUCH and Dr. SHRADY

In the Vanderbilt Clinic the Department of Hydrotherapy is equipped with all appliances for the practical applications of water in disease, and every student is called upon to make practical use of the apparatus.

75—Lectures bearing upon the practical work of examining for life insurance. 4 or 5 lectures. Dr. ROGERS

102—Experimental pharmacology. 12 hours a week. Dr. LIEB

#### Research

The research laboratory of pharmacology is open to a limited number of workers.

## Pharmacy

The New York College of Pharmacy is the Division of Pharmacy of Columbia University. In the section of the Catalogue devoted to the College of Pharmacy will be found a list of its officers and information as to the equipment and method of instruction. The Program of Studies includes the following courses:

### Junior Year

Physics—Lectures and recitations, Professor ARNY; laboratory, Professor ARNY and Mr. HOHMANN

General and Pharmaceutical Chemistry—Lectures, Professor ARNY; recitations, Professor OEHLER

Analytical Chemistry—Laboratory work and Theoretical course, Professor VORISEK; recitations, Dr. LESLIE

Theory of Pharmacy—Lectures, Professor DIEKMANN; recitations, Mr. HOHMANN

Practical Pharmacy—Laboratory course, Professors DIEKMANN and WIMMER and Mr. HOHMANN

Dispensing Pharmacy—Laboratory course, Professors DIEKMANN and WIMMER

Physiology—Lectures, Professor RUSBY; recitations, Dr. BALLARD

Botany—Lectures, Professor RUSBY; recitations, Dr. BALLARD

Pharmacognosy—General laboratory course, Professor RUSBY; histological laboratory course, Professor MANSFIELD and Dr. BALLARD

Posology and Toxicology—Recitations, Dr. BALLARD

Biology (University Class)—Professor MANSFIELD

### Senior Year

General Organic, Pharmaceutical and Medical Chemistry—Lectures, Professor ARNY; recitations, Professor OEHLER

Analytical Chemistry—Laboratory work, Professor VORISEK and Dr. LESLIE

Urine Analysis—Chemical laboratory courses. Professor VORISEK; Microscopical laboratory courses, Professor MANSFIELD

Practical Pharmacy—Lectures, Professor DIEKMANN; laboratory course, Professors DIEKMANN and WIMMER and Mr. HOHMANN

Dispensing Pharmacy—Laboratory course, Professors DIEKMANN and WIMMER and Mr. HOHMANN

Materia Medica—Lectures, Professor RUSBY; recitations, Dr. BALLARD

Toxicology—Lectures, Professor RUSBY; recitations, Dr. BALLARD

Commercial Pharmacognosy—Laboratory, Professor MANSFIELD and Dr. BALLARD

Histological Pharmacognosy—Laboratory course, Professor MANSFIELD and Dr. BALLARD

Biology—University Class, Professor MANSFIELD

## Graduate Courses

Plant Analysis—Laboratory, Professor RUSBY  
 Technical Microscopy—Laboratory, Professor MANSFIELD  
 Bacteriology—Laboratory course, Professor JESSUP  
 Inorganic Quantitative Analysis—Laboratory, Professor VORISEK  
 Organic Analysis and Toxicology—Laboratory, Professor ARNY  
 Pharmaceutical Assaying—Lectures and laboratory work, Professors  
 DIEKMANN and WIMMER, and Mr. HOHMANN  
 Physiological Chemistry—Lectures, Professor GIES

## Food and Drug Course

Plant Analysis—Professor RUSBY  
 Commercial Organic Analysis and Toxicology—Lectures and laboratory  
 course, Professor ARNY  
 Inorganic Quantitative Analysis—Lectures and laboratory course,  
 Professor VORISEK  
 Pharmaceutical Assaying—Lectures and laboratory course, Professors  
 DIEKMANN and WIMMER and Mr. HOHMANN  
 Technical Microscopy—Laboratory course, Professor MANSFIELD  
 Bacteriology—Professor JESSUP  
 Food and Drug Inspection—Lectures, Mr. DUFF

## Philosophy and Psychology

*Professors:* ADLER, CATTELL, DEWEY, FULLERTON, LORD, MACVANNEL,  
 MILLER (D. S.), STRONG, SUZZALLO, THORNDIKE (E. L.), WOODBRIDGE  
 (*Executive Officer, Philosophy*), and WOODWORTH (*Executive Officer,*  
*Psychology*)

*Associate Professors:* BUSH, JONES, MONTAGUE, NORSWORTHY, PITKIN

*Assistant Professor:* RUGER

*Instructors:* BROWN, COOLEY, HOLLINGWORTH, MCCLURE, and WHITLEY

*Lecturers:* BECKER and POFFENBERGER

*Non-resident Lecturer:* WATSON

*Assistants:* COSS, DASHIELL, REJALL and WILLIAMS

*See introductory paragraphs, page 56*

A1-A2—Introductory Course. (Columbia College). Principles of  
 Science. Professors MILLER and JONES, Dr. BROWN, Dr. COOLEY and Dr.  
 MCCLURE

Barnard College—First half-year, psychology, second half-year, logic.  
 Professor MONTAGUE, Dr. BROWN and Dr. HOLLINGWORTH.

Barnard College School of Journalism—Professor PITKIN

21-22—Ethics. Professor LORD

42—Introduction to esthetics. Professor BUSH (Columbia College)

61-62—History of philosophy. Professor WOODBRIDGE (Columbia).  
 Professor MONTAGUE and Dr. BROWN (Barnard)



79—Introduction to contemporary philosophy and metaphysics. Professor MONTAGUE and Dr. BROWN (Columbia), Dr. BROWN (Barnard)

103—Types of philosophic method. Full course. Professor BUSH

104—Analysis of experience. Full course. Professor DEWEY

110—Central problems of life and mind. Full course. Professor PITKIN

115-116—Types of theistic approach. Two half courses. Dr. COOLEY

121A-122A—Psychological ethics. Two full courses. Professor DEWEY

121B-122B—Psychological ethics. Two half courses. Professor DEWEY

126—Modern life appraisements. Full course. Professor ADLER

161—The historical characteristics of philosophy. Full course. Professor WOODBRIDGE

163-164—Readings in the literature of philosophy. One half course. Professor BUSH

165—British philosophy. Full course. Professor PITKIN

168—The philosophy of Kant. Full course. Professor MONTAGUE

181-182—Practicum—Philosophy of education. Two full courses. Professor MACVANNEL

219—Research work in symbolic logic. Full course. Dr. BROWN

225-226—A course in systematic ethics. Two half courses. Professor ADLER

263-264—Contemporary philosophy. Two half courses. Professor BUSH

291-292—(Same as Philosophy of education 215-216)—Philosophy and education in their historic relations. Two full courses. Professor DEWEY

301-302—Departmental conferences are held bi-weekly throughout the year. Candidates for the degree of A.M. or Ph.D. are expected to attend and participate

304—Metaphysics. Double course. Professor WOODBRIDGE

Mathematics 311-312—The general theory of assemblages. 3 hours. Dr. LENNES

Mathematics 323-324—The principles of mathematics. 3 hours. Professor KEYSER

361—(Same as Greek 205)—Plato: republic, phaedrus, and symposium. Full course. Professor PERRY

362—(Same as Greek 206)—Aristotle: nicomachean, ethics. Full course. Professor PERRY

Jurisprudence 161—Elements of law. 3 hours. Professor MUNROE SMITH

History 121-122—The history of the intellectual class in Europe from the Greek sophists to the French philosophers. 3 hours. Professor ROBINSON

History 223—Primitive institutions, paganism and christianity. Full or half course. Professor SHOTWELL

Economics 242—Radicalism and social reform as reflected in the literature of the nineteenth century. 2 hours. Professor SIMKHOVITCH



History 279—General history of political theories, ancient and medieval. 2 hours. Professor DUNNING

History 280—General history of modern political theories. 2 hours. Professor DUNNING

History 281—American political philosophy before 1850. 2 hours. Professor DUNNING

History 282—American political philosophy since 1850. 2 hours. Professor DUNNING

History 381-382—Seminar in political philosophy. 1 hour. Professor DUNNING

13—Philosophy of religion. (At the Union Theological Seminary.) Professor MILLER

14—Theism. (At the Union Theological Seminary.) Professor MILLER

417-420—Philosophy of religion. Professor MILLER (at the General Theological Seminary)

421-426—Ethics. Professor T. C. HALL (at the Union Theological Seminary)

427-430—Ethics. Professor HUNT (at the General Theological Seminary)

#### Summer Session

sA1—Principles of science: methods, deductive and inductive logic. 3 points. Dr. BROWN

sA2—Principles of science: concepts and problems of philosophy. 3 points. Professor MONTAGUE

s161—History of ancient philosophy. Dr. BROWN

s162—The history of modern philosophy. Professor MONTAGUE

s101—Foundations of methods. Professor DEWEY

s105—Types of metaphysical theory. Professor CREIGHTON

s123—The ethics of Plato and Aristotle. Professor CREIGHTON

s205—Selected philosophical problems. Professor DEWEY

#### Extension Teaching

eA1—Principles of science: methods, deductive and inductive logic. 3 points. Dr. BROWN

eA2—Principles of science: concepts and problems of philosophy. 3 points. Dr. BROWN

e61-62—History of philosophy. 2 points. Dr. COOLEY

#### Psychology

1-2—Elements of general psychology. Professor LORD

3-4—Experimental psychology, introductory course. Professor WOODWORTH assisted by Mr. WILLIAMSON

7-8—Experimental psychology, introductory course. Dr. HOLLINGWORTH

- 9-10—Experimental psychology, intermediate. Dr. HOLLINGWORTH
- 21-22—(Same as Education 21-22)—Child psychology. Professor NORSWORTHY
- 24—(Same as Education 24)—The psychology and education of exceptional children. Professors THORNDIKE and NORSWORTHY
- 111-112—Experimental psychology, advanced course. Two half or two full courses. Professor CATTELL
- 113-114—Experimental psychology. Laboratory work. Two half or two full courses. Professor CATTELL and Mr. REJALL
- 117-118—Application of experimental and physiological psychology to education. Two half courses. Professor RUGER
- 124—(Same as Education 124)—The psychology of the elementary school subjects. Half course. Professor THORNDIKE
- 131-132—Physiological psychology. Two full courses. Professor WOODWORTH
- 133-134—Laboratory course in physiological psychology. Two full courses. Dr. POFFENBERGER
- 161-162—Advanced systematic psychology. Two full courses. Dr. POFFENBERGER
- 163—Introduction to psychology. Full or half course. Professor KRUEGER
- 171-172—The psychology of religion. Professor COE
- 202—Problems and methods of experimental psychology. Professor WOODWORTH and Dr. POFFENBERGER
- 221-222—(Same as Education 221-222)—Educational psychology, advanced. Two full courses. Professor THORNDIKE and Miss BRONNER
- 224—(Same as Education 224)—Application of psychological and statistical methods to education. 2 hours. Professor THORNDIKE
- 235-236—Pathological psychology, advanced course. Two half or two full courses. Professor WOODWORTH
- 251-252—Neurology and psychiatry. Professors STARR, PETERSON and BAILEY and Dr. SCRIPTURE
- 263—Seminar in the psychology of social evolution. Full course. Professor KRUEGER
- 281-282—Seminar in psychology. 2 hours. Professors CATTELL and WOODWORTH
- 283-284—Research in psychology. Two half, two full, or two double courses. Professors CATTELL and WOODWORTH assisted by Mr. REJALL and Mr. WILLIAMSON
- 301-302—Colloquium in psychology. Professor CATTELL
- 322—Seminar in educational psychology. Professor THORNDIKE

<sup>1</sup> Union Theological Seminary.

## Summer Session

- s1—Elements of psychology. 2 points. Professors SEASHORE and BOOK and Dr. HOLLINGWORTH  
 s103—Experimental psychology. Professor SEASHORE  
 s112—The psychology of reasoning. Professor PILLSBURY  
 s131—Physiological psychology. Professor PILLSBURY  
 s141—Applied psychology. Professor BOOK  
 s162—Advanced systematic psychology. Dr. HOLLINGWORTH  
 s283—Research course. Professors PILLSBURY, SEASHORE and BOOK and Dr. POFFENBERGER

## Extension Teaching

- e1-2—Elements of psychology. 3 points. Dr. HOLLINGWORTH.  
 e3-4—Experimental psychology. 2 points. Dr. POFFENBERGER  
 e141—Applied psychology. 2 points. Dr. STRONG  
 e142—Psychology of advertising. 2 points. Dr. STRONG

## Equipment

The library facilities of Columbia University and of the city of New York, for students of philosophy and psychology, are unusually good. The collection of books on the history of philosophy in the University Library is very large, that on Kant and his philosophy being especially complete. About 1000 periodicals are regularly received, and among them will be found every journal of importance, American or foreign, dealing with philosophy or psychology. Duplicates of the more important psychological books and journals are placed in the Psychological Laboratory, where there is also a card index of psychological literature containing over 25,000 titles. Students of psychology will also find much of value in the Library of the Academy of Medicine, 17 West 43d Street, which is open to students free of charge. The New York Public Library is also available for students, when introduced by one of the instructors, on especially favorable terms.

The Psychological Laboratory in Schermerhorn Hall, besides the lecture room and laboratories for introductory courses, contains ten rooms available for research work, some of them being specially constructed for particular sorts of psychological experiments. There is also a departmental library of the most important original literature of experimental psychology, and a well-equipped workshop in which much of the apparatus required for research or for laboratory courses is made by the aid of a skilled instrument-maker. The collection of apparatus includes that required for demonstration in courses in experimental and physiological psychology and for laboratory work in the same subjects; the outfit of an anthropometric laboratory with a full equipment for various forms of mental tests; an adding machine and other aids in statistical work; and apparatus that has been used or is being used in research.

## Physical Education

*Professor:* WOOD (*Executive Officer*)

*Associate Professor:* MEYLAN

*Instructors:* ELLIOTT and FETTE

*Assistants:* FOWLER, BLOOM, HOLM, KENNEDY, WEEMAN, WARSHOWSKY (A.), KRANZ, SPRINGER, WECHSLER, MAIN, SPENCE, JENSEN, and BUSH (A. M.)

### Courses

*See introductory paragraphs, page 56*

#### *For Men*

Hygiene 1-2—Lectures, quizzes, and reports on topics of personal and community hygiene. 3 hours. Professor MEYLAN

A1-A2—Elementary graded gymnastic exercises, and lectures on personal hygiene. 2 hours. Mr. FETTE

B1-B2—Graded gymnastic exercises, and lectures on personal and community hygiene. 2 hours. Professor MEYLAN, Dr. ELLIOTT, and assistants

### Extension Teaching

eX1-X2—Gymnastics. Dr. ELLIOTT

eY1-Y2—Swimming. Mr. KENNEDY

eZ1-Z2—Boxing. Mr. WEEMAN

#### *For Women*

A1-A2—Lectures on personal hygiene, elementary athletics, games, and dancing. In sections. 2 hours. Miss BEEGLE

B1-B2—Lectures on hygiene and sanitation, athletics, games, and dancing. In sections. 2 hours. Miss BEEGLE

C1-C2—National folk and aesthetic dancing. 2 hours. Miss BEEGLE

D1-D2—Hygiene and public health problems. 1 hour. Miss BEEGLE

There are also twenty-three courses given under the auspices of Teachers College: Hygiene A, 87, Physical education 1-2, 5-6, 9-10, 55-56, 57-58, 59-60, 64, 65, 66, 67-68, 119-120, 121-122, 123-124, Education 88, 89-90, 187-188, 189-190, 287-288, 289-290, Physical training A, and B.

### Equipment

The main exercising room is semicircular in shape, and has a floor area of 16,000 square feet. The ceiling is 35 feet high, and the room is well lighted and well ventilated, both naturally and artificially. The running track is 11 feet wide, with ends raised, and measures 10 laps to the mile. On the same floor as the running track are the Gymnasium and Director's offices, an auxiliary gymnasium 40 × 60 feet, rooms for fencing, boxing, and handball, two large dressing-rooms with 2000 steel lockers, and 32 shower-baths. Below the exercising room is the swimming pool, semicircular in shape; it measures 100 by 50 feet on its axes, and contains



200,000 gallons of water. The depth is from 4 to 10 feet. Around the pool are the dressing-rooms and 20 shower-, needle-, and tub-baths. On this floor is also a large room and two dressing-rooms equipped with shower-baths and lavatories, for the use of the various athletic teams.

The athletic field is equipped with a  $\frac{1}{4}$  mile running track, baseball field, facilities for jumping, pole vaulting, putting the shot, etc., and seven tennis courts.

The Gould Boat-house, located on the Hudson River, at the foot of 116th Street, is equipped with boats of all descriptions, lockers, baths, etc.

The Frederick Ferris Thompson Memorial Building, given to Teachers College by Mrs. F. F. Thompson, has been recently completed. It is a building of four stories devoted to the purposes of physical education and school hygiene. It contains offices, examination rooms, lecture- and class-rooms, laboratories, handball courts, bowling alleys, a swimming pool, four gymnasiums, rooms for corrective exercises, dressing-rooms, shower-baths, fencing-room, and a suite of rooms for photographic purposes. This building provides physical-training facilities for the women, the pupils of the Horace Mann School, and the varied equipment for the theoretical and practical instruction of professional students in physical education.

The Gymnasium is open daily during the academic year, except on Sundays and legal holidays, from 8.30 A.M. to 6.30 P.M., Tuesdays, Wednesdays and Fridays, and 8.30 A.M. to 10 P.M. Mondays, Thursdays and Saturdays. It is closed for the entire day only on Thanksgiving, Christmas, New Year's, and Good Friday. On all other holidays it is open from 3 to 6 P.M. One or more of the instructors are on the floor at all times when the Gymnasium is open.

A course in physical education is required of all Freshmen and Sophomores in Columbia College, and first- and second-year students in the School of Mines, Engineering and Chemistry, except students holding degrees from other colleges; also first-year students in the School of Journalism and the School of Architecture. A physical examination is required of each student in these classes upon entrance and at the end of the second year, and of all other students taking part in athletics.

Every student is entitled to a physical examination by the Medical Director. On the basis of this examination advice is given as to the kind and amount of exercise best adapted to his needs.

### Physics

*Professors:* HALLOCK, POOR, PUPIN, WENDELL, WILLS, and WOODHULL

*Associate Professor:* PEGRAM (*Executive Officer*)

*Assistant Professors:* BURNSIDE, DAVIS and MALTBY

*Instructors:* FARWELL, KENDALL, LANGFORD, MORSE, SCHROEDER, SEVERINGHAUS, TROWBRIDGE, WEBB, WEINRICH and WHITEMORE



*Lecturers:* DAY and STIFLER

*Assistants:* BRAININ, BRANT, COLEMAN, GOUCHER, MURPHY, SCOTT and WRIGHT

### Courses

*See introductory paragraphs, page 56*

A1-A2—General elementary physics. C 3 hours and L 2 hours. Professor DAVIS, Mr. FARWELL, Dr. STIFLER and Mr. COLEMAN

3-4-5—General physics. C 5 hours. Professor WENDELL, Dr. MORSE, Mr. FARWELL, Dr. WEINRICH, Mr. SEVERINGHAUS, Mr. KENDALL, Mr. SCOTT and Mr. BRAININ

11—Elementary mechanics. C 3 hours. Dr. WEBB

12—Properties of matter and heat. C 3 hours. Professor HALLOCK

41, 42—Laboratory physics. L 2, 4, or 6 hours, in connection with 11 or 12. Mr. FARWELL and Dr. STIFLER

13—Electricity and magnetism. C 3 hours. Professor HALLOCK

14—Light and radiation. C 3 hours. Dr. MORSE

15-16—Analytical mechanics. 3 hours. Professor PEGRAM

43-44—Physical laboratory. L 3 hours. Professor WENDELL, Dr. MORSE, Dr. WEINRICH, Mr. SEVERINGHAUS, Mr. KENDALL, Mr. SCOTT, Mr. BRAININ, Mr. MURPHY and Mr. WRIGHT.

61, 62—Laboratory physics. L 2, 4, or 6 hours, in connection with 13 or 14. Mr. FARWELL and assistants

71-72—Laboratory physics. L 4 or 6 hours. Dr. TROWBRIDGE

55—Physical measurements. 2 hours. Professor HALLOCK

154—Sound and theory of oscillations. Half course. Professor DAVIS

157—Light. Half course. Professor HALLOCK

155—Electricity and magnetism. 3 hours. Professor DAVIS

160—Kinetic theory of gases. Half course. Professor DAVIS

151-152—Advanced laboratory course. Half to two full courses each half-year. Dr. TROWBRIDGE

[255—Discharge of electricity through gases. Half course. Professor DAVIS]

251—Heat. Half course. Dr. DAY

258—Phenomena of radio-activity. Half course. Professor PEGRAM

259—Phenomena of radiation. Half course. Dr. MORSE

### Barnard College

1-2—Elementary physics. C 3 hours, L 2 hours. Professor MALTBY and Miss BRANT

11-12—General physics. C 3 hours, L 2 hours. Miss LANGFORD and Miss BRANT

31—Mechanics. C 3 hours, L 2 or 4 hours. Miss LANGFORD

32—Heat and properties of matter. C 3 hours, L 2 or 4 hours. Miss LANGFORD.

- 33—Sound. *C* 3 hours, *L* 2 or 4 hours. Professor MALTBY  
 34—Light. *C* 3 hours, *L* 2 or 4 hours. Miss LANGFORD  
 35—Electricity and magnetism. Professor MALTBY  
 138—Theory of electricity. 3 hours. Professor MALTBY  
 145-146—Physical chemistry. 145 full course, 146 half course. Professor MALTBY

#### Teachers College

Physical science 51—General course for teachers. 4 hours. Professor WOODHULL

Physical science 101-102—History of physical science. Half course each half-year. Professor WOODHULL.

#### Summer Session

s1—Mechanics: statics. 6 points. Professor BURNSIDE and Mr. SCHROEDER

s102a—Statics. 3 points. Professor BURNSIDE and Mr. SCHROEDER

s102b—Dynamics. 3 points. Professor BURNSIDE and Mr. SCHROEDER

sA—Elementary course in general physics. 4 points. Professor HULL, Messrs. FARWELL, NELMS, HINES and Dr. STIFLER

s3—Elementary mechanics, wave-motion, and hydrostatics. 6 points. Mr. FARWELL

s4—Heat and light. 6 points. Dr. MORSE

s14—Electricity and magnetism. 3 points. Professor FRANKLIN

s43—Laboratory course in general physics. 3 points. Mr. SEVERINGHAUS

s33a, or b—Intermediate laboratory course in general physics. 1 or 2 points. Mr. SEVERINGHAUS

s107—Principles and experiments. 3 points. Half course. Professor HULL

s213—Thermodynamics. Full course. Professor FRANKLIN and Mr. CHARLES

s272—Research

#### Extension Teaching

eA1-A2—Elementary course in general physics. 4 points. Mr. FARWELL

Optometry 1-2—Theoretical optics. *C* 3 hours, *L* 2 hours. Dr. STIFLER

Optometry 4-11—Physiological optics. 3 hours. Professor HALLOCK

Optometry 9-10—Theoretical optics. *C* 3 hours, *L* 2 hours. Dr. STIFLER

1—Mechanics: statics. 2 hours. Professor BURNSIDE, Dr. WEBB, Mr. SCHROEDER and Mr. WHITTEMORE

102—Mechanics: continuation of mechanics 1. 5 hours. Professor BURNSIDE, Dr. WEBB, Mr. SCHROEDER and Mr. WHITTEMORE

103-104—Analytical mechanics. Full course each half-year. 3 hours. Professor PEGRAM.

105—Thermodynamics. 2 hours. Professors WILLS and PEGRAM

107-108—Theory of electricity and magnetism. 2 hours first half-year, 3 hours second half-year. Professor WILLS

109-110—Theory of alternating current machines and theory of electrical currents. 4 hours first half-year, 3 hours second half-year. Professor PUPIN

206—Mechanics. Full course and a half. Professor WILLS

208—Theory of elasticity. Half course. Professor WILLS

210—Hydrokinetics. Half course. Professor WILLS

215-216—Electricity and magnetism. Full course each half-year. Professor PUPIN

212—Theory of sound. Full course. Professor PEGRAM

219—Theory of radiation. Half course. Professor PEGRAM

218—Theory of light. Full course. Professor HALLOCK

203-204—Partial differential equations of physics. Full course each half-year. Dr. WEBB

[213—Thermodynamics and kinetic theory of gases. Full course. Professor PEGRAM]

222—Statistical mechanics. Full course and a half. Professor WILLS

201—Vector analysis and mathematical introduction. Full course and a half. Professor WILLS

225—The relativity theory. Full course. Professor PEGRAM

223-224—Recent advances in electrical theory. Half course each half-year. Professor PUPIN

241-242—Celestial mechanics, elementary course. Half course each half-year. Professor POOR

243—Tides and tidal currents. Half course. Professor POOR

244—The reduction of observations. Half course. Professor POOR

*Journal Club*—The Journal Club of the Department meets every week for the discussion of the current literature of physics, and for reports of special investigations.

### Equipment

The laboratories and lecture-rooms of the Department of Physics are in Fayerweather Hall and in the basement of Philosophy Hall. Gas, water, compressed air, and direct, alternating, and storage battery current for light, power, and experimental use are available throughout the laboratories.

The departmental library in Fayerweather Hall contains an excellent collection of books and periodicals.

The laboratories used for research work have been named by the Trustees the "Phoenix Physical Laboratories," in memory of Mr. Stephen Whitney Phoenix, who bequeathed to the University a generous sum as

an endowment for research in the physical sciences. Since 1903 the Department has been receiving sufficient appropriation from the income of the Phoenix fund to make extensive additions to its stock of apparatus.

Under the professor of electro-mechanics, extensive new laboratories in the Philosophy building have been equipped for research in the subjects of electricity and magnetism, which afford unusual opportunities for students desiring to specialize in these subjects.

The physical laboratories at Barnard occupy the second floor and part of the basement of Fiske Hall. They are well equipped for quantitative experimental work in the courses offered.

The physics laboratories and lecture-room of Teachers College are especially equipped for illustrating the teaching of physics in secondary and normal schools.

### Physiology

*Professor:* LEE (*Executive Officer*)

*Associate Professor:* BURTON-OPITZ

*Assistant Professor:* PIKE

*Associates:* EMERSON and WILLIAMS (H. B.)

*Instructors:* BINGHAM, GORDON, SCOTT, SHEARER and TERRIBERRY

All courses except 1-2, 52-53 and 106-107 are open to women.

### Courses

*See introductory paragraphs, page 56*

1-2—Elementary physiology. *C* 1 hour, *L* 2 hours. Professor PIKE  
52-53 and 106-107—Human physiology. *C* 3 hours, *D* 1 hour, *L* 3 hours. Professors LEE, BURTON-OPITZ and PIKE, Drs. BINGHAM, GORDON, SHEARER, TERRIBERRY and WILLIAMS (H. B.)

201-202—General physiology. *C* 1 hour, *L* 5 hours. Professors LEE and PIKE and Mr. SCOTT

203-204—Special physiology. *C* 1 hour, *L* 5 hours. Professors BURTON-OPITZ, PIKE, Dr. WILLIAMS (H. B.) and Mr. SCOTT

205-206—Problems of evolution from the standpoint of physiology. *C* 1 hour. Professor PIKE

207—Clinical physiology. *C* 1 hour, *L* 2 hours. Professors BURTON-OPITZ and PIKE, Drs. EMERSON and WILLIAMS (H. B.)

213—Experimental study of reflex actions and tropisms. (Schermerhorn Hall.) 1 hour, with demonstrations and opportunities for laboratory work. Professor MORGAN (T. H.)

151-152—General physiology. (Barnard College.) *C* 2 hours, *L* 4 hours. Professor OSBURN and Dr. GREGORY

Biology 1—Elementary human anatomy and physiology. (Teachers College.) *C* 1 hour, *L* 2 hours. Miss STACKPOLE and Professor BIGELOW



- Biology 3—Introduction to applied biology. (Teachers College.)  
C 2 hours, L 4 hours. Miss STACKPOLE and Professor BIGELOW  
Biology 53—Applied biology, advanced course. (Teachers College.)  
C 2 hours, L 4 hours. Miss STACKPOLE and Professor BIGELOW  
Physical Education 55-56—Applied physiology. (Teachers College.)  
C 1 hour, L 2 hours. Mr. WILLIAMS (J. F.)

#### Summer Session

- s101—Elementary physiology. 2 points. Dr. WILLIAMS (H. B.)  
s102—Advanced physiology. 2 points. Dr. WILLIAMS (H. B.)  
Physical Education s55—Physiology of exercise. 2 points. Mr.  
WILLIAMS (J. F.)

#### Research

The laboratories are open for research, under the direction of their officers, to advanced workers.

#### Journal Club

A journal club, composed of the members of the staff and graduate students, holds weekly meetings for the discussion of current literature and special investigations.

#### Equipment

The main equipment of the Department of Physiology is at the College of Physicians and Surgeons. It comprises one large laboratory, which is provided with special apparatus for teaching purposes; one large and four small laboratories for research; several private rooms for the use of the officers of the department; the Swift Physiological Cabinet, containing a specially endowed and very full collection of apparatus of precision, mainly for research; a library containing complete sets of all of the physiological journals, monographs and other books, and many reprints of special articles; two dark rooms for optical and photographic work, and an outfit of machines and tools for working in wood and metal. A skilled mechanic gives his entire time to the design, manufacture, and repair of apparatus. The laboratories are connected by wires with the Vanderbilt Clinic so that the string galvanometers of the department are available for making electrocardiographic records from patients at the clinic. In Schermerhorn Hall at Morningside Heights the department has the use of a laboratory equipped for the instruction of undergraduates. At Barnard College, the course in general physiology is given in the zoölogical laboratory and under the auspices of the department of zoölogy. At Teachers College, the courses in elementary human physiology, introduction to applied biology, and applied biology are given under the auspices of the department of biology; and that in applied physiology under the auspices of the department of physical education. Course 213 is given in the zoölogical laboratory, under the auspices of the department of zoölogy.



**Political Economy and Finance**

(See page 88)

**Political Philosophy**

(See page 113)

**Politics**

(See page 121)

**Practice of Medicine***Professor:* T. C. JANEWAY (*Executive Officer*)*Professors of Clinical Medicine:* BRILL, DRAPER, EVANS, HUBER, JACKSON (F. W.), JAMES (W. B.), KAUFMANN, KINNICUTT, LIBMAN, LOCKWOOD, NORRIE, THACHER, and STADTMÜLLER*Associate Professor:* LONGCOPE*Assistant Professors of Clinical Medicine:* BOVAIRD, CAMAC, MILLER and POTTER*Associates:* EMERSON and FRISSELL*Associates in Clinical Medicine:* CARTER, HART, HOLLIS, SUMNER, SWIFT, TUTTLE and WILLIAMS (L. R).*Instructors:* HERRICK, MASON, MOSENTHAL and THACHER (H. C.)*Instructors in Clinical Medicine:* CECIL, DRAPER, HENSEL, SCHWERDT-FEGER, SHEARER, SNYDER, SWANN and WOODRUFF*Assistants:* JAMES (H.), NEERGAARD and STRONG*Assistants in Clinical Medicine:* BARRETT, BRENNER, ERDWURM, and GILLETTE*Chiefs of Clinic:* HERRICK and MASON*Clinical Assistants:* BROWNELL, CLASS, DETWEILER, EPSTEIN, FLEMING, FRIED, FRIEDMAN, FREIDSON, GOLDFARB, HORSFORD, HUMPHREYS, JACOBUS, JAMES, KENT, KESSEL, LIKELY, MCCABE, MARTIN, MOSENTHAL, NEERGAARD, PASCALE, INEL, ROSENTHAL, SHAINÉ, STRONG, SWANN, THACHER, VOGELER, WEINSTEIN and YOUNG**Courses***See introductory paragraphs, page 56*

51—Physical diagnosis—Lecture demonstrations. 1 hour. November 1 to February 1. Drs. EMERSON and THACHER

52—Physical diagnosis—Vanderbilt Clinic. 4 hours for five weeks. Drs. EMERSON and THACHER

54—Elementary medical clinic—Vanderbilt Clinic and Presbyterian Hospital. 2 hours. Professors JANEWAY and LONGCOPE and Dr. EMERSON

55—Theoretical instruction. 1 hour. Professor JANEWAY

56—Clinical lecture on general medicine—Vanderbilt Clinic. 1 hour. Professor JANEWAY

57—Clinical lecture on general medicine—Presbyterian Hospital. 1½ hours. Professors JANEWAY and LONGCOPE

58—Clinical lecture on general medicine—Vanderbilt Clinic. 1 hour. Professor LONGCOPE

59-60—Clinical lecture on general medicine—City Hospital. 1½ hours. Professor EVANS

61-62—Physical and medical diagnosis—Vanderbilt Clinic and the Out-patient Departments of Presbyterian and Bellevue Hospitals. 48 hours for each student. Drs. HERRICK, MASON, HART, FRISSELL, CARTER, SHEARER, BARRETT, SWANN, JAMES and BRENNER

63-64—Recitations in general medicine. 2 hours. Dr. FRISSELL

65-66—Recitations in general medicine. 2 hours. Dr. HERRICK

67-68—Clinical lectures in general medicine—Roosevelt Hospital. 1 hour. Professors EVANS, JACKSON, THACHER and Dr. SUMNER

70—Clinical lecture on general medicine—Presbyterian Hospital. 1½ hours for the second half-year. Professors JANEWAY, JAMES and LONGCOPE

71-72—Clinical and pathological conference. 1½ hours for twelve weeks. Professors JANEWAY, MACCALLUM and LONGCOPE

73-74—Clinical instruction—St. Mary's Free Hospital for Children. 1 hour for four weeks. Dr. SWIFT

75-76—Clinical instruction—City Hospital. 2 hours a week for eight weeks. Professors POTTER, CAMAC, and Dr. WILLIAMS

77—Recitations in general medicine. 2 hours. Dr. MOSENTHAL  
Clinical Clerkships—For particulars see page 232.

79-80—In the wards of the Presbyterian Hospital. Professors JANEWAY, LONGCOPE, JAMES, KINNICUTT, THACHER, BOVAIRD and Drs. HART, TUTTLE, SWANN, DRAPER and CECIL

81-82—In the wards of St. Luke's Hospital. Professor LAMBERT and Drs. HOLLIS, PATTERSON and FRISSELL

83-84—In the wards of Bellevue Hospital. Professors LOCKWOOD, DRAPER, NORRIE, MILLER, and Dr. WOODRUFF

85-86—In the wards of the German Hospital. Professors KAUFMANN, STADTMÜLLER and DENIG, and Drs. SCHWERDTFEGER and HENSEL

87-88—In the wards of Mt. Sinai Hospital. Professors BRILL and LIBMAN

89-90—Case reporting and medical seminar. Professors JANEWAY, LONGCOPE, POTTER and CAMAC

#### Summer Session

s63-64—Physical and medical diagnosis. 2 points. Dr. MILLER

#### Clinical Pathology

*Assistant Professor:* VOGEL

*Instructors:* JESSUP and VON HUFFMANN

*Assistants:* CARLUCCI, CUSSLER and HOPKINS

Close association is maintained between this department and the Departments of Pathology and Bacteriology and Hygiene, so as to facilitate instruction and research in these closely allied subjects.

*See introductory paragraphs, page 56*

#### Courses

52—Systematic instruction in clinical pathology. 4 hours for half the academic year. Professor VOGEL and Drs. JESSUP, IRVING and HOPKINS

53-54—Practical exercises in clinical pathology. Vanderbilt Clinic laboratory. 10 hours for one fourth of the academic year. Professor VOGEL and Dr. CUSSLER

200—Special laboratory course in clinical pathology. Professors WOOD and VOGEL

#### Research

Qualified workers may pursue research either in the laboratory of Clinical Pathology, in the Vanderbilt Clinic laboratory, or in the Pathological laboratories of St. Luke's Hospital. Professors WOOD and VOGEL

#### Summer Session

52 and 200—Clinical pathology. 2 points. Professors WOOD and VOGEL

#### Equipment

Systematic instruction in clinical pathology is given in the west lecture-room on the fifth floor of the Vanderbilt Clinic building. Students are furnished with apparatus sufficient to enable them to carry out such tests as are necessary for the exposition of the subject. Demonstrations are made of special methods and more complicated apparatus. In order to permit the student to make independently such examinations as are needed in the diagnosis and treatment of disease, a new laboratory has been erected between the Vanderbilt Clinic and the Sloane Maternity Hospital, with accommodations and apparatus for twenty workers. In this laboratory the students make examinations of the secretions and excretions of patients from the clinical courses at the Vanderbilt Clinic and the hospitals.

#### Psychology

(See page 144)

#### Public Law and Jurisprudence

(See page 121)

#### Religion

In addition to courses offered in conjunction with the Union and General Theological Seminaries, the following courses in Religion are given in Columbia College.

*See introductory paragraphs, page 56*

1-2—Introduction to the study of the Bible. 2 hours. Chaplain KNOX

3-4—Fundamentals of Religion. 3 hours. Professor THOMAS C. HALL  
of Union Theological Seminary

### Rhetoric and English Composition

(See page 99)

### Romance Languages and Literatures

*Professors:* COHN (*Executive Officer*), TODD and WEEKS

*Associate Professor:* GERIG

*Assistant Professors:* FONTAINE, JORDAN, LIVINGSTON, and LOISEAUX

*Instructors:* ALEXANDER, BIGONGIARI, DE BACOURT, FORTIER, IMBERT,  
and MULLER

*Visiting Lecturer:* GALLAND

*See introductory paragraphs, page 56*

For courses under 100 there is a special numbering under French, Italian, and Spanish, respectively. Courses above 100 are all numbered under the general heading Romance Languages and Literatures.

#### French

A1-A2—Elementary course. 3 hours. Professors COHN and GERIG and Drs. MULLER and ALEXANDER (Columbia), and Drs. MULLER and ALEXANDER and Mr. FORTIER (Barnard)

B1-B2—Syntax reading, and composition. 3 hours. Professors COHN and GERIG and Messrs. MULLER and FORTIER (Columbia), and Mr. MULLER (Barnard)

B4—Grammar, reading, and composition. 5 hours, second half-year. Professor COHN and Dr. ALEXANDER

C1-C2—Elementary course for graduate students. 2 hours. Professor JORDAN

J1-J2—Reading of French newspapers. 3 hours. Mr. DE BACOURT (Journalism)

1-2—General introduction to the study of French literature. 3 hours. Professors COHN and FONTAINE and Mr. FORTIER (Columbia), Mr. MULLER, Professors WEEKS and GERIG (Barnard)

3—Composition and conversation based on the history of France. 3 hours. Professor JORDAN (Columbia)

3-4—Modern prose writers, especially the historians. 3 hours. Professor JORDAN (Barnard)

4—Composition and conversation based upon scientific French. 3 hours. Professor JORDAN (Columbia)

5-6—History of French literature in the seventeenth century. 3 hours. Professor LOISEAUX and Mr. FORTIER (Columbia), Professor WEEKS (Barnard)

9-10—Composition. 1 hour. Professor JORDAN (Columbia), Professor JORDAN (Barnard)

11-12—Advanced composition and conversation. 1 hour. Professor JORDAN (Columbia), Professor JORDAN (Barnard)

21-22—Advanced grammar and composition. 3 hours. Professors COHN and FONTAINE (Teachers College)

101—History of French literature in the seventeenth century down to 1660. 3 hours. Professors WEEKS and LOISEAUX and Mr. FORTIER

102—History of French literature in the seventeenth century after 1660. 3 hours. Professors LOISEAUX and WEEKS and Mr. FORTIER

103—History of French literature in the eighteenth century down to 1750. 3 hours. Professor LOISEAUX

104—History of French literature in the eighteenth century after 1750. 3 hours. Professor LOISEAUX

105—History of French literature in the nineteenth century down to 1852. 3 hours. Professor WEEKS

106—History of French literature in the nineteenth century after 1852. 3 hours. Professor WEEKS

111-112—History of French literature of the sixteenth century. 2 hours. Professor GERIG

113-114—Old French. 2 hours. Professor TODD

121-122—Methods of teaching French in secondary schools. Professor COHN. (Identical with Education 165-166)

[205-206—Special topics in seventeenth century French literature. 2 hours. Professor COHN]

[207-208—Special topics in eighteenth century French literature. 2 hours. Professor COHN]

209-210—Special topics in sixteenth century literature. 2 hours. Professor GERIG

211-212—Special topics in nineteenth century literature. 2 hours. Professor COHN

221-222—*Le sentiment de la nature dans la littérature française depuis le commencement du mouvement romantique.* 2 hours. Mr. GALLAND

223-224—*Exploitation d'auteurs français.* 1 hour. Mr. GALLAND

Education 165-166—Methods of teaching French in secondary schools. 2 hours. Professor COHN (Teachers College)

301-302—Seminar—Literary criticism in France, from the death of Sainte-Beuve to the death of Binnetier. 2 hours. Professor COHN

#### Italian

1-2—Elementary course. 3 hours. Mr. BIGONGIARI (Columbia), and Professor LIVINGSTON (Barnard)

3-4—General introduction to the study of Italian literature. 3 hours. Professor LIVINGSTON (Columbia), Mr. BIGONGIARI (Barnard)



- 131-132—The *Divina Commedia* of Dante. 3 hours. Mr. BIGONGIARI  
 133-134—Petrarch and Humanism: the Petrarchist movement. 3 hours. Professor LIVINGSTON  
 135-136—Italian literature of the nineteenth century. 2 hours. Mr. BIGONGIARI  
 137-138—Special topics in Italian literature. 2 hours. Professor LIVINGSTON

Spanish

- 1-2—Elementary course. 3 hours. Mr. IMBERT  
 3-4—General introduction to Spanish literature. 3 hours. Professor LOISEAUX (Columbia) Professor GERIG (Barnard)  
 141-142—The novela of the golden age. 3 hours. Professor LOISEAUX  
 [143-144—The Spanish comedia. 3 hours. Professor LOISEAUX]

Romance Philology

- 151-152—Introduction to Romance philology. 2 hours. Professor TODD  
 251-252—The works of Chrétien de Troyes. 1 hour. Professor TODD  
 253-254—The works of Chrétien de Troyes. 1 hour. Professor TODD  
 [255-256—Critical constitution of texts. 1 hour. Professor TODD]  
 257-258—Old Provençal. 1 hour. Professor TODD  
 259-260—Oldest monuments of the Italian and Spanish languages. 1 hour. Professor LIVINGSTON  
 271-272—Portuguese. 1 hour. Professor TODD  
 273-274—Rumanian. 1 hour. Professor COHN  
 303-304—Seminar—Presentation and discussion of doctoral dissertation work. 1½ hours. Professor TODD

Summer Session

*French*

- sA1—Elementary course. 2 points. Mr. McMASTER and Dr. ALEXANDER  
 sA2—Elementary reading and oral practice. 2 points. Mr. FORTIER and Mr. MASON  
 sA3—Supplementary course. 2 points. Mr. McMASTER and Mr. MASON  
 This course may be taken simultaneously with sA1 with the special permission of the instructor.  
 sB1—Intermediate: first course. 2 points. Dr. ALEXANDER  
 sB2—Intermediate: second course. 2 points. Dr. ALEXANDER  
 s1—General introduction to the study of French literature. I. 2 points. Professor YOUNG  
 s2—General introduction to the study of French literature. II. 2 points. Mr. MASON  
 s3—French conversation and composition, based upon scientific French. 2 points. Mr. FORTIER

s5—History of French literature in the seventeenth century. Second course. 2 points. Professor LOISEAUX

s101—Lectures on French literature during the first half of the seventeenth century. Professor LOISEAUX

s103—History of French literature in the second half of the eighteenth century. 2 points. Professor LOISEAUX

s105—History of the French literary movement in the first half of the nineteenth century. Period 1800-1852. Mr. FORTIER

s114—Old French. 2 points. Professor YOUNG

#### *Italian*

s1—Elementary: first course. 2 points. Mr. LINARI

s2—Elementary: second course. 2 points. Professor LIVINGSTON

s4—General introduction to the study of Italian literature. 2 points. Professor LIVINGSTON

#### *Spanish*

s1—Elementary I. 2 points. Professor GERIG

s2—Elementary II. 2 points. Professor LIVINGSTON

s3—General introduction to Spanish literature. I. 2 points. Professor FITZ-GERALD

s4—General introduction to Spanish literature. II. 2 points. Professor FITZ-GERALD

#### *Romance Philology*

s151—Introduction to Romance philology. 2 points. Professor FITZ-GERALD

s275—Phonetics. 2 points. Professor GERIG

#### **Extension Teaching**

##### *French*

eA1-A2—Elementary course. 3 points. Messrs. MULLER and COVELLO  
(Also in Brooklyn and Newark)

eA3-A4—Elementary course. I. 1½ points. Mr. FARNSWORTH

eA5-A6—Elementary course. II. 1½ points. Mr. FARNSWORTH

eA8—Elementary course. 3 points. Mr. FARNSWORTH

eB1-B2—Intermediate course. 3 points. Mr. BIGONGIARI and Mr. IMBERT. (Also in Newark)

eB3-B4—Intermediate course—Grammar, reading and composition. 3 points. Mr. FARNSWORTH

e1-2—General introduction to the study of French literature. 3 points. Mr. FORTIER

3-4e—Conversation and composition based upon the history of France. 3 points. Mr. FORTIER

e5-6—History of French literature in the seventeenth century. 6 points. Professor LOISEAUX

e101-102—History of French literature in the seventeenth century.  
Professor LOISEAUX

#### *Italian*

e1-2—Elementary course. 3 points. Professor LIVINGSTON

e3-4—Advanced course. 6 points. Professor LIVINGSTON

#### *Spanish*

e1-2—Elementary course. 3 points. Mr. IMBERT. (Also in Brooklyn)

e3-4—Advanced course. 3 points. Mr. IMBERT

#### Equipment

The Library of Columbia University is well supplied with French, Spanish, and Italian works, as well as with works upon Romance philology. Its list of periodicals is especially rich. The Library has also complete sets of the most important series and collections in the whole field of the Romance languages and literatures.

The library of the Romance Department, in Philosophy Hall, contains a large number of books of reference. A special privilege enjoyed by the Department is that of using the library of the Hispanic Society of America.

#### Public Lectures

Occasional lectures in French, in Italian, and in Spanish, open to all members of the University, are given by the members of the department and by invited lecturers.

#### The Romance Club

The Romance Club consists of all the instructors and advanced students in the department. At its meetings, an account is given of the most important articles in the recent French, English, German, Italian, and Spanish periodicals, new books are discussed, letters from absent instructors and former students in the department are read, etc.

#### Co-operation with the Alliance Française

Elementary evening classes in French are conducted by the department of Extension Teaching in co-operation with the Alliance Française.

#### French Societies

Two societies have been organized for the purpose of fostering the use of the French language among the members of the University, viz., the Société Française de l'Université Columbia, and the Société Française de Barnard College.

#### Shopwork

*Offered by the School of Practical Arts at Teachers College*

Assistant Professor: SLEFFEL

Instructors: CONSTANTINE and WALSH

1—Wood-turning and pattern-making. 2 half-days. Mr. CONSTANTINE

- 2—Molding and foundry practice. 1 afternoon. Professor SLEFFEL  
 10S—Machine work. 3 weeks. Mr. WALSH  
 11—Machine work. 2 half-days. Mr. WALSH  
 12—Forging. 2 half-days. Professor SLEFFEL  
 13-14—Machine work. 1 afternoon. Mr. WALSH  
 15—Forging and foundry practice. 1 afternoon. Professor SLEFFEL  
 16—Machine work. 1 afternoon. Mr. WALSH  
 18S—Pattern-making, forging, and machine work. Three weeks.  
 Professor SLEFFEL and Messrs. CONSTANTINE and WALSH

### Social Economy

(See page 88)

### Sociology and Statistics

(See page 90)

### Surgery

- Professors:* BLAKE (*Executive Officer*), HAYDEN  
*Professors of Clinical Surgery:* BREWER, DOWD, GERSTER, HARTLEY,  
 HOTCHKISS, JOHNSON, KAMMERER, KILIANI, PECK, and WALKER  
*Associate Professor:* LAMBERT (A. V. S.)  
*Associates:* CLARK and MARTIN  
*Associates in Clinical Surgery:* ABBE and BERG (A. A.)  
*Instructors:* AUCHINCLOSS, BANCROFT, BROWN, BURNAP, CONNELL,  
 COX, DERBY, KENYON, KINGSLEY, MATHEWS, TILNEY, VAN BEUREN,  
 VOSBURGH, WHITING  
*Instructors in Clinical Surgery:* COLLINS, CONLEY, DARRACH, FISCHER,  
 McWILLIAMS, POOL, RUSSELL, ST. JOHN, STETTEN, STILLMAN, TURNURE,  
 and WHIPPLE  
*Assistants:* DWIGHT, HOOKER, and VAUGHAN  
*Clinical Assistants:* BROWN, KINGSLEY, LEGGETT and PHELPS  
*Clinical Assistants G. U. Diseases:* BLANCARD, BANCROFT, COWAN, KOHN  
 and OWEN

### Courses

*See introductory paragraphs, page 56*

For courses in Genito-Urinary Diseases see under Clinical Instruction  
 page 85

51-52—Surgical pathology and general and regional surgery. 1 hour.  
 Professor BLAKE

53-54—Surgical pathology; general and regional surgery. 1 hour.  
 Professor LAMBERT

55-56—Clinic in general surgery. Vanderbilt Clinic. 2 hours. Pro-  
 fessor LAMBERT

57—Clinic in general surgery. 1 hour. Roosevelt Hospital. Pro-  
 fessor PECK

58—Clinic in general surgery. Presbyterian Hospital. 1 hour. Professor BLAKE

59-60—Clinic in general surgery. Vanderbilt Clinic. 1 hour. Professor BREWER

61-62—Clinic in general surgery. Roosevelt Hospital. 1 hour. Professor BREWER

63-64—Operative surgery on the cadaver. 10-12 lessons. Drs. MARTIN, SCHMITT, COX and KENYON

67-68—Recitations and clinic in surgical pathology. 3 hours. Dr. CLARKE

70—Demonstrations. Anatomy of fracture. 1 hour. Dr. DWIGHT

71-72—Practical instruction in surgical technic in the laboratory for surgical research. 4 hours for four weeks.

73-74—Practical instruction in surgical pathology. 2 hours for 8 weeks. Drs. CLARKE, AUCHINCLOSS and WHIPPLE

75-76—Practical instruction. St. Mary's Free Hospital for Children. 1 hour for four weeks. Professor DOWD

79-80—Minor surgery and bandaging. Practical instruction at the Vanderbilt Clinic. 48 lessons. Drs. VAN BEUREN and VAUGHAN

81-82—Minor surgery and bandaging. Practical instruction at the Roosevelt Hospital Out-patient Department. 48 lessons. Dr. STILLMAN

83-84—Recitations in general and regional surgery. 2 hours. Dr. MATHEWS

85-86—Recitations in general and regional surgery. 2 hours. Dr. CONNELL

87-88—Hospital Clinics—*Optional:*

New York Hospital—1 week. Professor HARTLEY or JOHNSON

St. Luke's Hospital—1 week. Dr. ABBE

Hospital for the Ruptured and Crippled—2 a week. Professor GIBNEY and Dr. WALKER. 2 a week, Professor WHITMAN

St. Mary's Free Hospital for Children—1 a week, Professor DOWD

General Memorial Hospital—2 a week. Professor DOWD

## Zoölogy

*Professors:* BIGELOW, CALKINS, CRAMPTON, DEAN (B.), MORGAN (T. H.), OSBORN, and WILSON (*Executive Officer*)

*Assistant Professors:* MCGREGOR and OSBURN

*Associate:* GREGORY (W. K.)

*Instructors:* DEDERER and GREGORY (L. H.)

*Assistants:* PACKARD, GOODRICH and MULLER

Of the following courses, 1-2, 3-4 and 101-102 are given separately at Barnard College, 5, 6, 53-54 and 151-152 only at Barnard.

For courses given at Teachers College see the current *Announcement of Teachers College*.



## Courses

*See introductory paragraphs, page 56*

1-2—Elementary biology, zoölogy, general principles of biology. Prerequisite, Science A or elementary chemistry or physics. C 2 hours, L 4 hours. Professors CALKINS, MCGREGOR, and in Barnard, Professors CRAMPTON, OSBURN, Miss DEDERER and Dr. L. H. GREGORY

(Course 3-4 may be taken with advantage with 1-2 to form a more comprehensive course. It may be taken only in connection with or subsequent to 1-2)

3-4—Elementary histology. C 1 hour, L 2 hours. Professor MCGREGOR, and in Barnard, Miss DEDERER. Elementary embryology. C 1 hour, L 2 hours. Professor MORGAN, and in Barnard, Professor OSBURN

91-92—General zoölogy (to follow 1-2). C 2 hours, L 6 hours. Professor MCGREGOR

5—General biology. C 1 hour, L 2 hours. Professor CRAMPTON (Barnard)

6—Experimental biology. C 1 hour, L 2 hours. Professor CRAMPTON (Barnard)

53-54—Practical zoölogy and embryology. 2 points. Miss DEDERER (Barnard)

94—Embryology of vertebrates. C 1 hour, L 2 hours. Professor MCGREGOR. Prerequisite, 1-4

101-102—General zoölogy. C 3 hours, L 6 hours, and assigned work. Professors MCGREGOR, and in Barnard, Professors CRAMPTON, OSBORN, Dr. L. H. GREGORY, and Miss DEDERER. 2 full courses

110—The parasitic protozoa. C 1 hour, L 5 hours. Professor CALKINS. Full course

113—Experimental study of reflux action and torpisms. 1 hour, with demonstrations and opportunities for laboratory work. Professor MORGAN. Full course

114—Experimental study of instincts. 1 hour. Professor MORGAN. Full course

151-152—General physiology (for women). C 2 hours, L 4 hours. Professor OSBURN and Dr. L. H. GREGORY. 2 full courses

201—Special topics in invertebrate zoölogy. Two days. Professor WILSON. Double course

203-204—Mammals, living and fossil. Lectures and laboratory course 6 hours (one day). Dr. W. K. GREGORY. The latter part of this course is given in the American Museum of Natural History. 2 full courses

206—Fishes, living and fossil. Professor DEAN. Full course

208-209—Comparative embryology. One day. Professors DEAN and CALKINS 2 full courses

212—The experimental study of evolution, with special reference to statistical work. One day. Professor CRAMPTON. Full course

215-216—Experimental zoölogy. 1 hour with laboratory work on special problems. Professor MORGAN. 2 full courses

217—Experimental study of regeneration. 1 hour. Professor MORGAN. Full course

218—Experimental embryology, parallel to 220. 1 hour. Professor MORGAN. Half course

220—Cellular embryology. 1 hour. Professor WILSON. Full course

221-222—Protozoölogy. C 1 hour, L 5 hours. Professor CALKINS. 2 full courses

223-224—Evolution of the vertebrates. One day. Dr. W. K. GREGORY. 2 full courses

225-226—Cellular biology—General structure and functions of the cell. C 1 hour, L 5 hours. Professor WILSON. 2 full courses

227-228—Special research

JOURNAL CLUB—Reports and discussions of recent literature by members of the staff, graduate students, and others. 1 hour a week throughout the year. Under direction of the staff

SEMINAR—Critical discussion of selected topics by members of the staff and graduate students. Subject and time are specially arranged

UNIVERSITY BIOLOGICAL LECTURES—A course of lectures on general topics, given from time to time by members of the staff and eminent specialists from other institutions. These lectures form the basis of the Columbia Biological Series, edited by Professors OSBORN and WILSON

#### Summer Session

SI—Elementary biology and zoölogy. 4 points. Professor MCGREGOR

#### Laboratories, Libraries, and Equipment

The zoölogical laboratories on the upper floor of Schermerhorn comprise a large general undergraduate laboratory, three graduate laboratories, and eight rooms for private research, besides special rooms for supplies, aquaria, and preparation. There are also a commodious lecture-room and a library. The laboratories are well equipped with optical instruments, microtomes, and other apparatus for advanced work. The teaching collections include a series of the Mediterranean and American marine types, and the injected vertebrate series of Fric and Muller, a set of standard and specially prepared charts and wax models, and a variety of living animals and plants contained in fresh-water and marine aquaria.

The departmental library, a part of the University Library kept in the laboratory, the gift of Charles H. Senff, Esq., is a memorial to the late Dr. John I. Northrop. It embraces sets of the standard biological works and includes the journals and a rapidly increasing collection of special monographs. A fund is available for the purchase of literature needed in connection with the special researches of students.

Important adjuncts to zoölogical work are offered by the American Museum of Natural History, the Bronx Zoölogical Garden, the New York Aquarium, and by the marine biological laboratories to which the University contributes support. Several investigators' tables are held at the Wood's Hole laboratory, one at the South Harpswell laboratory, and the John D. Jones scholarship is available at the Cold Spring Harbor laboratory. A table at the Naples Zoölogical Station is also supported by the University.

## ENTRANCE REQUIREMENTS

### Committee on Undergraduate Admissions

Professors JONES, *Chairman*, BONSER, BREWSTER, COLE, MCCREA, MCGREGOR (J. H.), MAYER, NOYES, ODELL, RUSBY, SACHS, SHERMAN, SLICHTER, UPTON, VAN HOOK, WILLIAMS

### GENERAL STATEMENT

There are no examinations for admission to the Schools of Law, Medicine, Political Science, Philosophy, Pure Science, and Fine Arts (courses leading to degrees), or to the School of Education. For the requirements for admission to these departments, see the separate announcements of the Schools and Faculties concerned.

### EXAMINATIONS

Except for reasons of weight, candidates for admission to the Freshman class in Columbia College or Barnard College must be at least fifteen years of age at the time of matriculation and correspondingly older for admission to advanced standing; and for admission to the Schools of Mines, Engineering, Chemistry, Architecture, Music, Design, and Journalism at least eighteen years of age.

The examination requirements for admission may be satisfied by any one of the three following means, or by any approved combination thereof:

1. By the examinations of the College Entrance Examination Board.—These examinations are held annually in June, in 1913 beginning in June at Columbia University and at about one hundred and fifty other educational centres in the United States and Europe. A complete list of the places and times of such examinations, together with the regulations governing them, is published about March 1 annually and may be obtained from the Secretary of the College Entrance Examination Board, Post Office Sub-Station 84, New York City.

2. By the examinations conducted by the Columbia University Committee on Undergraduate Admissions.—These examinations are held in September and January of each year (beginning on September 15, 1913, and January 12, 1914). The September examinations are held only at the University.

3. By the examinations of the State Examination Board of the New York State Education Department.—These examinations are held in

January and June at more than six hundred high schools and other institutions throughout the State of New York, but, save in exceptional circumstances, are open only to students in those schools. Full information regarding the regulations governing them may be obtained by application to the New York State Education Department, Albany, New York.

A copy of the time-scheme of the examinations held by the College Entrance Examination Board in June, and by Columbia University in September and January, together with information as to the proper method of filing application-blanks for these examinations, the payment of fees, the division of examinations, and also detailed definitions of the requirements in each admission subject, is given in the *Bulletin of Entrance Examinations and Admission* which may be had upon application to the Secretary of the University.

*All persons taking the January examinations will receive due credit for the results of the examinations. Students may be admitted, at the beginning of the second half-year, to Columbia College and Barnard College.*

*Candidates for admission to the School of Practical Arts may be admitted on the certificates of approved secondary schools. For full information see the separately printed announcement.*

#### APPLICATION FOR EXAMINATION

Every candidate for examination is required to file an application.

For the examinations in June, 1913, the application must be filed with the Secretary of the College Entrance Examination Board. Applications for examination in the United States east of the Mississippi River must be filed on or before June 2. Application for examination elsewhere in the United States or in Canada must be filed on or before May 26. Applications for examination outside of the United States and Canada must be filed on or before May 12.

For the examinations in January and September, 1913, applications should reach the Registrar of Columbia University on or before January 6, and September 8.

#### EXAMINATION FEE

Each application for examination in June must be accompanied by a fee of \$5 for all candidates examined at points in the United States and Canada, and \$15 for all candidates examined at points outside of the United States and Canada.

Each application for examination in January or September must be accompanied either by a fee of \$5, by a receipt from the Bursar for an examination fee previously paid, or by the receipt issued by the Secretary of the College Entrance Examination Board for the June examinations immediately preceding. *The latter will be accepted in either September or January, but not in both; and a single fee paid to the University will cover only two consecutive series of examinations, namely, January and September or September and January.*



If a late application is accepted either by the College Entrance Examination Board, or by the University, a second fee of \$5 must be paid.

The examination fee receipt should be carefully preserved. It must be presented by the candidate to the Supervisor in charge of the examinations which he attends as evidence that he is entitled to be admitted to the same. No candidate will be admitted to the January or September examinations upon the receipt of the Board, unless that receipt bears the certification of the Registrar of Columbia University that the candidate's application has been filed.

From and after July 1, 1913, the fee for the first examination or the first series of examinations for admission will be \$10, and for any subsequent examination or series of examinations for admission, except in the case of the above italicised provision, will be \$5. Students who have paid the initial entrance examination fee of \$10, will be exempted from the payment of the fee for matriculation or first registration.

#### RESTRICTIONS GOVERNING CREDITS FOR EXAMINATIONS

A candidate may present himself at any of the series of examinations scheduled above, and the results may be credited towards the fulfilment of the requirements for admission, subject to the following restrictions:

1. A candidate in making application for examination must submit a statement from the principal of his school, or from his last instructor, indicating the extent and character of his preparation in each subject in which he applies for examination, and credit may be withheld when this requirement is not met.

2. The results of an examination may stand to the candidate's credit for twenty-nine months, but no longer.

3. A candidate may not present himself for examination more than four times, except by special consent of the Committee on Undergraduate Admissions.

4. The results of the examinations conducted by the New York State Examination Board can be credited only in so far as the subject matter of these examinations specifically covers the subjects, or lettered or numbered parts of subjects, which are accepted for admission to Columbia University. Candidates who have been granted the College Entrance Diploma issued by the New York State Education Department may be admitted to the undergraduate departments free of conditions if the directions given in the Columbia University *Bulletin of Entrance Examinations and Admission* have been observed. The diploma should be forwarded to the Secretary of the University together with the application for admission. The proper credentials for individual subjects will be accepted in so far as they correspond to the entrance requirements.

5. In order to be credited towards entrance, the reports of a candidate's examinations, together with the statement of the extent and character of his preparation in each subject offered, must be in the hands of

the Committee on Admissions one week prior to the opening of the term in September or January.

6. The reports of all examinations must be rendered to the Committee on Admissions in percentages. The Committee interprets these percentages as Passed (P), Conditioned (Q), or Failed (F). Credit towards admission is given only for such examinations as receive a grade of P.

NOTE. The September examinations are intended for candidates who plan to enter college immediately. Preliminary examinations may be taken at this time only with the special consent of the Committee on Undergraduate Admissions.

### EXAMINATION SUBJECTS

Columbia University recognizes the following examination subjects which may be offered for admission to one or more of the colleges and schools included in the University, each subject counting for a specific number of units as indicated in parentheses. The unit here represents the number of years at the rate of five periods a week, which will normally be required in the secondary school to prepare adequately for the college examination.

**Columbia College:** A.B.  $14\frac{1}{2}$  units. *Prescribed*,  $9\frac{1}{2}$  units—English (3); elementary mathematics ( $2\frac{1}{2}$ ); elementary Latin (4). *Elective*, 5 units—of which not more than 4 from elementary French (2), elementary German (2), Italian (2), Spanish (2); nor more than 3 units from botany (1), chemistry (1), physics (1), physiography (1), shopwork (1), zoölogy (1); any of the following, except that to offer an advanced subject involves offering at the same time or earlier the corresponding elementary subject: elementary Greek (3), elementary history (2) or (1), drawing (1), music (1), intermediate French (1), intermediate German (1), advanced English (1), advanced Greek (1), advanced history (1), advanced Latin (1), advanced mathematics ( $\frac{1}{2}$ – $1\frac{1}{2}$ ).

**B.S.**  $14\frac{1}{2}$  units. The same as for the A.B. excepting that chemistry (1), physics (1), and intermediate or advanced subjects (2) may be offered in place of elementary Latin (4); in which case elementary Latin (2, 3 or 4) becomes elective.

**Barnard College:** A.B.  $14\frac{1}{2}$  units. Same as Columbia College with the exception of shopwork, which is not an entrance subject for Barnard College.

**B.S.**  $14\frac{1}{2}$  units. *Prescribed*,  $9\frac{1}{2}$  units—English (3); elementary mathematics ( $2\frac{1}{2}$ ); 2 units from botany (1), chemistry (1), physics (1), physiography (1), zoölogy (1), and intermediate or advanced subjects (2) may be offered in place of elementary Latin (4); in which case elementary Latin (2, 3 or 4) becomes elective. *Elective*, 5 units—as given under *Elective* Columbia College.

General two years' course  $14\frac{1}{2}$  units. *Prescribed*,  $5\frac{1}{2}$  units—English

(3); mathematics ( $2\frac{1}{2}$ ). *Elective*, 9 units—Ancient or modern foreign languages (4); history, foreign languages, mathematics or science (5).

**Schools of Mines, Engineering, and Chemistry:** To uniform first year.  $14\frac{1}{2}$  units. *Prescribed*,  $11\frac{1}{2}$  units—Chemistry (1), drawing (1), elementary French or elementary German (2), English (3), mathematics ( $3\frac{1}{2}$ ), physics (1). *Elective*, 3 units—Elementary German or elementary French (2), American history (1), ancient history (1), English history (1), medieval and modern history (1), elementary Latin (2), botany (1), physiography (1), shopwork (1), Spanish (2), zoölogy (2), intermediate French or intermediate German (1).

**School of Architecture:** For certificate  $12\frac{1}{2}$  units. *Prescribed*,  $6\frac{1}{2}$  units—English (3), mathematics ( $3\frac{1}{2}$ ), drawing (1). *Elective*, 5 units—Elementary French (2), elementary German (2), elementary history (2) or (1), elementary Latin (2), physics (2), chemistry (1), Spanish (2), advanced mathematics (1).

**School of Music:** For the certificate in Music  $9\frac{1}{2}$  units. *Prescribed*, 3 units—English (3). *Elective*,  $6\frac{1}{2}$  units—Elementary French (2) or (1), elementary Latin (2), elementary mathematics ( $2\frac{1}{2}$ ), physics (1), Italian (2), harmony (1), musical appreciation (1), musical performance (2), advanced history (1), advanced mathematics (1).

**School of Design:** For the certificate in Design  $9\frac{1}{2}$  units. *Prescribed*, 6 units—Drawing (1), English (3), either elementary French, elementary German, or elementary Italian (2). *Elective*,  $3\frac{1}{2}$  units—Either elementary Greek (3) or elementary Latin (2), elementary history (2) or (1), elementary mathematics ( $2\frac{1}{2}$ ), elementary physics (1), chemistry (1), advanced mathematics (1).

**College of Pharmacy:** Phar. C.  $11\frac{1}{2}$  units. To offer an advanced subject involves offering either at the same time or earlier the corresponding elementary subject. English (3), elementary French (2), elementary German (2), elementary Greek (3), elementary history (2) or (1), elementary Latin (4) or (2), elementary mathematics ( $2\frac{1}{2}$ ), physics (1), intermediate French (1), intermediate German (1), advanced Greek (1), advanced history (1), advanced Latin (1), advanced mathematics (1), botany (1), chemistry (1), drawing (1), physiography (1), Spanish (2), zoölogy (1).

**School of Journalism:** B. Lit.  $14\frac{1}{2}$  units. *Prescribed*, 9 units—English (3), History (2). French, German or French and German (4) (or a combination of both or either with Latin (6)). *Elective*,  $5\frac{1}{2}$  units—Elementary French (2), elementary German (2), Italian (2), Spanish (2), elementary Latin (2, 3 or 4) elementary mathematics (2 or  $2\frac{1}{2}$ ), botany (1), chemistry (1), drawing (1), physics (1), physiography (1), shopwork (1), zoölogy (1), intermediate French (1), intermediate German (1), advanced English (1),

advanced French (1), advanced German (1), advanced Greek (1), advanced history (1), advanced Latin (1), advanced mathematics (1).

School of Practical Arts: B.S. in Practical Arts, 14½ units. *Prescribed*, 7 units—English (3); 2 units from algebra (1) or (1½), plane geometry (1), modern commercial and higher arithmetic (1), biology (1), botany (1), chemistry (1), industrial and commercial geography (1), physics (1), physiology (½), physiography (1), zoölogy (1); 2 units from elementary French (2), German (2), Greek (3), Latin (2) or (3), Italian (2), Spanish (2), elementary history (½), (1), (2), (3), (4), industrial history (1), intermediate French (1), German (1), advanced English (1), Greek (1), history (1), Latin (1), mathematics (½), (1) or (1½). *Electives*, 7½ units—in addition to further choices from the foregoing, and not more than 3 units in all from the following may be elected, drawing (1), household arts (1), (2) or (3), music (1) or (2), shopwork (1), (2) or (3).

### SCHEDULE OF EXAMINATIONS

The examinations at Columbia University will be held as follows:

For men, in Earl Hall in January, and in the Gymnasium in June and September.

For women, in Barnard College in January, June, and September.

Candidates taking these examinations must report to the Supervisor, in the examination room, fifteen minutes in advance of the first examination which they are to attend.

#### Schedule

January 13-20, 1913

Monday, January 13

Mathematics <i>a</i> (Elementary Algebra, complete).....	9.30-12.30
Mathematics <i>a</i> , i (Algebra to Quadratics).....	9.30-11.30
Mathematics <i>a</i> , ii (Quadratics and beyond).....	9.30-11.30
History <i>b</i> (Medieval and Modern History).....	1.30-3.30
History <i>d</i> (American History).....	1.30-3.30
Physics.....	3.45-5.45
Botany.....	3.45-5.45
Zoölogy.....	3.45-5.45

Tuesday, January 14

Mathematics <i>c</i> (Plane Geometry).....	9-11
Mathematics <i>d</i> (Solid Geometry).....	9-11
Mathematics <i>cd</i> (Plane and Solid Geometry).....	9-12
History <i>a</i> (Ancient History).....	1.30-3.30
History <i>c</i> (English History).....	1.30-3.30
German <i>a</i> (Elementary).....	3.45-5.45



# SCHEDULE OF EXAMINATIONS

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## Wednesday, January 15

Latin <i>N R 3</i> (Second Year Latin).....	9-11
French <i>a</i> (Elementary).....	1.30-3.30
German <i>b</i> (Intermediate).....	3.45-5.45
Spanish.....	3.45-5.45
Italian.....	3.45-5.45

## Thursday, January 16

Latin <i>N R 4</i> (Cicero— <i>Manilian Law</i> and <i>Archias</i> , and Sight Translation of Prose).....	9-11
Shopwork (Written).....	1.30-3
Latin <i>N R 5</i> (Vergil— <i>Æneid</i> I, II, and IV or VI, and Sight Translation of Poetry).....	1.30-3
French <i>b</i> (Intermediate).....	3.45-5 45

## Friday, January 17

English <i>a</i> (Reading and Practice).....	9-11
Latin <i>N R 6</i> (Advanced Prose Composition).....	11.15-12.3
English <i>b</i> (Study and Practice).....	1.30-3.30
Chemistry.....	3.45-5.45
Physiography.....	3.45-5.45
Greek <i>c</i> (Homer's <i>Iliad</i> , Books I-III).....	3.45-5.45
Music <i>b</i> (Harmony).....	3.45-5.45

## Saturday, January 18

Greek <i>b</i> (Xenophon's <i>Anabasis</i> ).....	9-11
Drawing.....	9-11
Mathematics <i>b</i> (Advanced Algebra).....	9-11
Greek <i>a</i> (Grammar and Elementary Prose Composition) ..	11-12.30
Mathematics <i>f</i> (Plane Trigonometry).....	1.30-3.30
Greek <i>g</i> (Sight Translation of Prose).....	1.30-3.30
Greek <i>f</i> (Prose Composition).....	3.45-5.15
Music <i>a</i> (Appreciation).....	3.45-5.45

## Monday, January 20

Advanced English.....	9-12
Advanced Greek.....	9-12
Shopwork (Laboratory).....	10-12
Advanced Latin.....	1-4
Advanced History.....	1-4



## June 16-21, 1913

## Monday, June 16

Mathematics <i>a</i> 1 (Algebra to Quadratics).....	9-11
Mathematics <i>a</i> 2 (Quadratics and beyond) .....	11. 15-1
Physics.....	2-4
Botany.....	2-4
Zoölogy.....	2-4
History <i>b</i> (Medieval and Modern History).....	4. 15-6
History <i>d</i> (American History).....	4. 15-6

## Tuesday, June 17

Mathematics <i>c</i> (Plane Geometry).....	9-11
Mathematics <i>d</i> (Solid Geometry).....	11. 15-1
German <i>a</i> (Elementary).....	2-4
History <i>a</i> (Ancient History).....	4. 15-6
History <i>c</i> (English History).....	4. 15-6

## Wednesday, June 18

Latin <i>N R</i> 3 (Second Year Latin).....	9-11
French <i>a</i> (Elementary).....	2-4
German <i>b</i> (Intermediate).....	4. 15-6
German <i>b c</i> (Intermediate and Advanced).....	4. 15-6
Spanish.....	4. 15-6

## Thursday, June 19

Latin <i>N R</i> 4 (Cicero— <i>Manilian Law</i> and <i>Archias</i> , and sight translation of prose).....	9-11
Latin <i>N R</i> 5 (Vergil— <i>Æneid</i> I, II, and IV or VI, and sight translation of poetry).....	2-4
Latin <i>d</i> (Vergil).....	2-4
French <i>b</i> (Intermediate).....	4. 15-6
French <i>b c</i> (Intermediate and Advanced).....	4. 15-6

## Friday, June 20

English <i>a</i> (Reading and Practice).....	9-11
Latin <i>N R</i> 6 (Advanced Prose Composition).....	11. 15-1
English <i>b</i> (Study and Practice).....	2-4
Drawing.....	4. 15-6
Greek <i>b</i> (Xenophon's <i>Anabasis</i> ).....	4. 15-6
Mathematics <i>b</i> (Advanced Algebra).....	4. 15-6

Saturday, June 21

Chemistry.....	9-11
Physiology.....	9-11
Greek <i>c</i> (Homer's <i>Iliad</i> , Books I-III).....	9-11
Greek <i>h</i> (sight translation of Homer).....	9-11
Greek <i>c h</i> (Homer's <i>Iliad</i> , Books I-III, and sight translation of Homer).....	9-11
Music <i>b</i> (Harmony).....	9-11
Greek <i>a 1</i> (Grammar).....	11. 15-1
Greek <i>a 2</i> (Elementary Prose Composition).....	11. 15-1
Greek <i>g</i> (Sight Translation of Prose).....	2-4
Mathematics <i>f</i> (Plane Trigonometry only).....	2-4
Greek <i>f</i> (Prose Composition).....	4. 15-6
Music <i>a</i> (Appreciation).....	4. 15-6

### SUBMISSION OF NOTE-BOOKS, DRAWINGS, ETC.

All work submitted must be duly certified to in ink by the teacher in the following form:

"I certify that this is a true and original record of work actually performed by .....while in attendance at ..... during the year 19.....

Instructor in .....

Drawings should bear a similar certification, or in case of work not done under instruction should be accompanied by the candidate's own signed declaration.

All note-books unless otherwise specified should be submitted at the time for examination. Candidates desiring their return should apply to the Chairman of the Committee on Admissions.

English exercise books, submitted in lieu of examination, Advanced English essays, or Advanced History note-books, should be sent to the Secretary of the University at least two weeks before the examinations begin. Within ten days the candidate will be informed whether or not the work submitted has been accepted. English exercise books will *not* be returned to the writers. All note-books uncalled for one year from the date of submission will be destroyed.

### Admission to Advanced and Special Standing

(See Faculty Statements, page 190 *et seq.*)

### DEFINITIONS OF REQUIREMENTS

(Specimens of the question papers set by Columbia University are on file in the University Library or may be obtained from the Chairman of

the Committee on Undergraduate Admissions upon application. The question papers set by the College Entrance Examination Board are published annually in book form by Ginn & Company, New York.)

The following abridged statements are intended merely to indicate the general scope of the requirements. The official definition of each requirement is printed in full in the *Bulletin of Entrance Examinations and Admission*, and any person who intends to take the examinations himself or to prepare others for them should procure this Bulletin.

**Arithmetic, Modern Commercial and Higher** (counting one unit). *May be offered for entrance to the School of Practical Arts only.*

Review of the principles of arithmetic applied to the solution of modern commercial and industrial problems. Emphasis should be given to the principles of modern banking, domestic and foreign exchange, etc. Special emphasis should be given to the application of these topics to practical problems.

**Biology** (Counting one unit). *May be offered for entrance to the School of Practical Arts only.*

The course should include elementary work in Botany, Zoölogy and Physiology.

**Botany**<sup>1</sup> (One unit). (1) Structure and life history of 16 or more types of representative families of plants, 10 of them seed plants. (2) Elementary plant physiology. (3) Elementary natural history (ecology of plants). Requiring one year of laboratory and class-room instruction, for the course.

**Chemistry**<sup>1</sup> (One unit). Preparation and properties of the common elements and their important compounds.

Mastery of the more usual chemical terms and ability to make simple calculations and explanations of chemical processes. Preparation should include lectures and demonstrations, study of standard elementary text-books, and forty or more laboratory exercises.

**Drawing**<sup>1</sup> (One unit). The ability to sketch freehand with reasonable accuracy—(a) From dictation: Simple geometrical figures; (b) From the object: A vase, household utensil, or other familiar object; (c) From the copy: Enlarging or reducing simple pieces of machinery or architectural or decorative detail. (At least 20 freehand drawings must be submitted.)

**English** (Three units). (a) Reading and Practice (this part of the test may be fulfilled in whole or in part by an exercise book). (See page 177.) A test of training in English composition. A list of the books prescribed for reading appears in the *Bulletin*. (b) Study and Practice. The subject-matter, form, and structure of certain specified works, and incidentally English grammar and English literary history.

<sup>1</sup> A certified and indexed note-book must be submitted (see p. 177).

Prescribed for 1913, 1914 and 1915: Macbeth; L'Allegro, Il Penseroso and Comus; Burke on Conciliation, or both Washington's Farewell Address and Webster's First Bunker Hill Oration; Macaulay's Life of Johnson, or Carlyle's Essay on Burns.

**English, Advanced (One unit).** Candidates must have covered substantially the same ground as that included under English A1-A2 (see page 99). (1) English composition, presupposing the elements of rhetoric. (2) General history of English literature, and selected works (a list of which may be obtained from the Secretary of the University). Ten essays of at least 500 words each must also be submitted. (See page 177.)

**French, Elementary (Two units).** Accurate pronunciation and the ability to read at sight easy prose and to put into French simple English sentences. The rudiments of the grammar, involving all but the rare irregular verb forms and the simpler uses of conditional and subjunctive. The preparation should include, beside the mastery of a good elementary text-book, the reading of 300-600 pp. of easy French.

**French, Intermediate (One unit).** Additional reading, 400-600 pp. including dramatic works. Grammar completed. Further drill in composition.

**French, Advanced (Counting one unit).** *May be offered for Journalism only.* Additional reading of from 600 to 1000 pages of standard French, classical and modern, the writing of numerous short themes in French and the study of syntax.

**Geography, Industrial and Commercial (Counting one unit).** *May be offered for entrance to the School of Practical Arts only.*

One-third of this course should be devoted to the elements of physical geography, and commercial geography should be studied around countries as units. A note book showing that map and atlas study has been carried on in connection with the text study must be submitted.

**German, Elementary (Two units).** Accurate pronunciation and the ability to read easy dialogue and narrative prose, and a working knowledge of grammar and composition adequate for the putting into German of simple English sentences based upon a familiar vocabulary. The preparation should include, beside the mastery of a good elementary text-book, the reading of 150-200 pp. of easy German.<sup>1</sup>

**German, Intermediate (One unit).** Additional reading, 400 pp. of moderately difficult prose and poetry. Further drill in grammar and composition, with special reference to syntax.

<sup>1</sup> A list of the reading recommended will be found in the *Bulletin*.



**German, Advanced** (Counting one unit). *May be offered for Journalism only.*

Additional reading of about 500 pages of good literature in prose and poetry, reference reading upon the lives and works of the great writers studied, the writing of numerous short themes in German upon assigned subjects, independent translation of English into German.

**Greek, Elementary** (Three units). (a) 1 and 2.—Attic grammar and elementary composition, based on Anabasis I–II. (b) Anabasis I–IV. (c) Iliad I–III (except II, 494–end) with tests concerning constructions, poetic forms, and prosody. (f) Translation into Greek of simple continuous English prose. (g) Translation into English at sight of continuous Greek prose.

**Greek, Advanced** (One unit). Candidates must have covered substantially the same ground as that included under Greek 3–4 (see p. 80): at least 1200 additional lines in Homer, Herodotus, Bk. vi., and Plato's Apology. Also at least fifteen exercises in Spieker's Greek Prose Composition.

**History, Elementary** (Each of the four divisions a, b, c, and d counts one unit. Candidates for admission to the Schools of Mines, Engineering, and Chemistry may offer one or more of the divisions without restriction. All other candidates may offer any one or any two of the divisions without restriction). (a) Ancient, beginning with brief study of Oriental peoples and coming down to the death of Charlemagne, with reference to art, literature and government. (b) From 800 on, including growth of the State system. (c) English history, including social and political developments. (d) American history with the elements of civil government.

Each field may best be covered by an accurate text-book of 300 pp. plus, say, 300 pp. of selected supplementary reading.

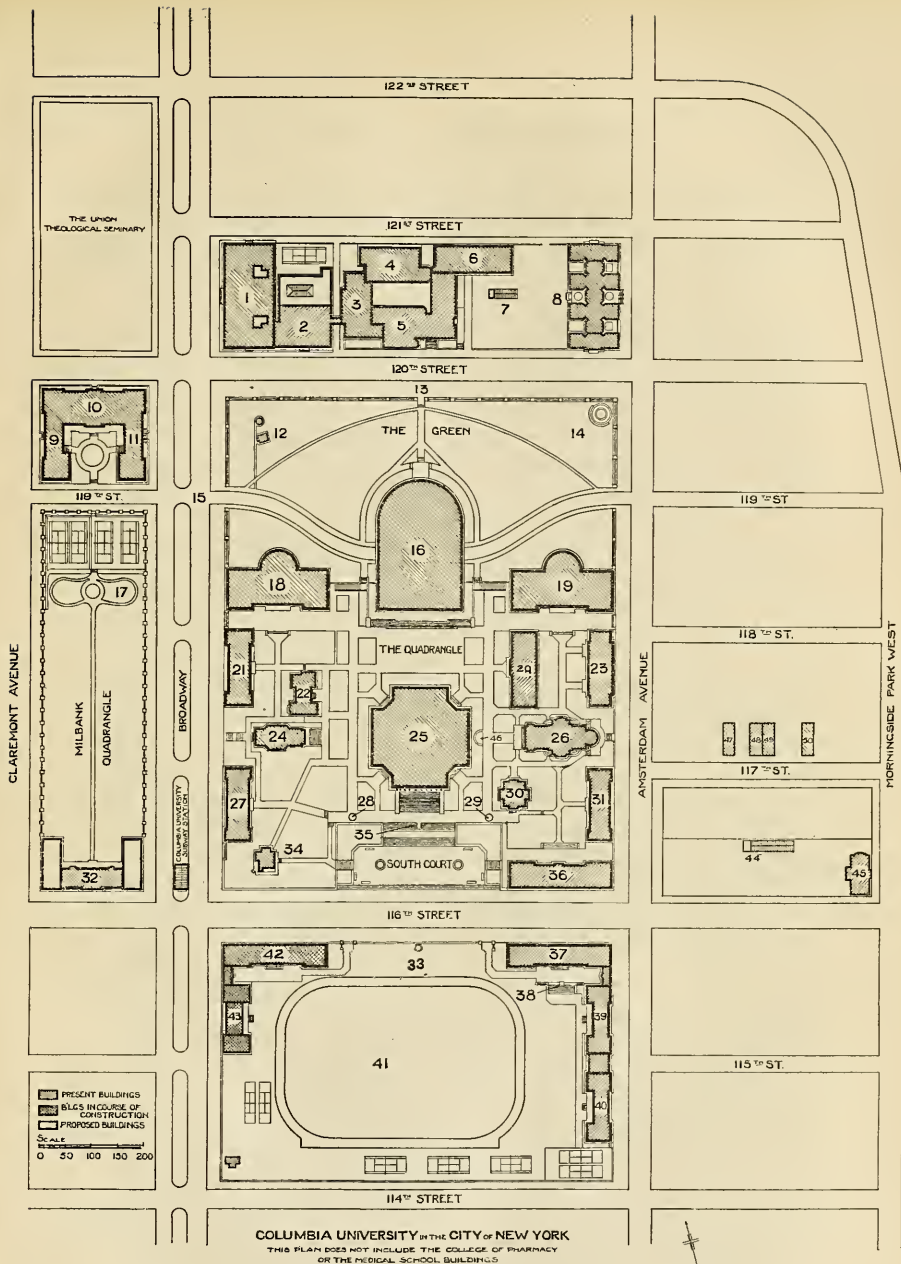
**History<sup>2</sup> Advanced** (One unit). (Candidates must have offered for elementary history either *a* and *b* or *c* and *d*, and must present themselves for examination upon the two divisions *which they did not offer as an elementary subject*.) The work performed must have been of the same kind, amount, and quality as that required for History A1–A2 (see page 113). Supplementary reading emphasizing the significance of historical phenomena. The candidate must present at least 5000 words of notes on each historical field offered, and show practice in making historical parallels in preparing digests of outside reading, and in the use of historical maps.

**History, Industrial** (Counting one unit). *May be offered for entrance to the School of Practical Arts only.*

Industrial History with special reference to the modern period

<sup>2</sup> A certified note-book must be submitted (see p. 177).





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|-------------------------------|-------------------------------|--------------------------------|
| 1. Horace Mann Schools        | 18. Havemeyer                 | 35. Statue, Alma Mater         |
| 2. Thompson Memorial Building | 19. Schermerhorn              | 36. Kent                       |
| 3. Milbank Memorial Chapel    | 20. Avery                     | 37. Hamilton                   |
| 4. Macy                       | 21. Engineering               | 38. Statue, Alexander Hamilton |
| 5. Main Building (Teachers)   | 22. West                      | 39. Hartley                    |
| 6. Domestic Science           | 23. Fayerweather              | 40. Livingston                 |
| 7. Peabody Greenhouse         | 24. Earl                      | 41. South Field                |
| 8. Women's Dormitory          | 25. Library                   | 42. Journalism                 |
| 9. Fiske                      | 26. St. Paul's Chapel         | 43. Furnald                    |
| 10. Milbank                   | 27. Mines                     | 44. Botany Greenhouse          |
| 11. Brinkerhoff               | 28. Lafayette Post Flag Staff | 45. President's House          |
| 12. Wilde Observatory         | 29. Class of 1881 Flag Staff  | 46. Class of 1886 Exedra       |
| 13. Class of 1882 Gates       | 30. East                      | 47. Deutsches Haus             |
| 14. Statue, Great God Pan     | 31. Philosophy                | 48. Residence of Dean          |
| 15. Mapes Gates               | 32. Brooks                    | 49. " " Chaplain               |
| 16. University                | 33. Class of 1885 Sun Dial    | 50. Carnegie Endowment         |
| 17. Milbank Quadrangle        | 34. Faculty Club              |                                |



and to the influence of the numerous factors of industrialism on the social, economic and political aspects of life.

**Household Arts** (Counting one or two units). *May be offered for entrance to the School of Practical Arts only.*

(a) Textiles and Sewing. Nature of common materials, their manufacture and use, principles underlying the construction of simple garments by hand or by machine. Laboratory instruction of not less than 180 hours. Certified note books of laboratory exercises must be submitted.

(b) Foods and Cookery. Nature of food materials, principles underlying their preparation and the principles involved in the cooking apparatus. Laboratory instruction of not less than 180 hours. Certified note books of laboratory exercises must be submitted.

Advanced (either division counting one unit).

With the restriction that offering an advanced unit will involve offering a unit in the corresponding elementary subject.

**Italian, Elementary** (Two units). The requirement corresponds to that in Elementary French (see p. 159).

**Latin, Elementary** (Four units), *i. e.*, NR 4, Cicero and sight translation of prose; NR 5, Vergil and sight translation of poetry, and NR 6, Advanced prose composition; or three units, *i. e.*, NR 3 with either NR 4 or NR 5.

**Latin, Advanced** (One unit). Candidates must have covered substantially the same ground as that included under Latin A1-A2 (see Page 80). Horace, Odes, Bks. I and III, with incidental prosody, and Livy, Bk. XXI and Chapters 41-53, Bk. XXII<sup>2</sup> (or, for Barnard College, Vergil, Eclogues, and Ovid, selections). Fifteen exercises from Part I and ten from Part II of Gildersleeve and Lodge's Prose Composition.

**Mathematics, Elementary** (Two and one-half units). (a) Elementary algebra, including—i, the four fundamental operations for rational expressions, and such topics as lowest common multiple, ratio and proportion, linear equations, radicals, fractional and negative exponents; ii, quadratic equations, arithmetic and geometric progressions, the binomial theorem for positive integral exponents, the use of graphical methods. (c) Plane geometry—original exercises, loci, mensuration of lines and plane surfaces.

**Mathematics, Advanced** (One-half to one and one-half units). (b) Advanced Algebra (One half-unit): Permutations and combinations, complex numbers, determinants, numerical equations of higher degree, theory of equations, graphical methods, Descartes's rule of signs, and Horner's method. (d) Solid geometry (One half-unit): Original

<sup>2</sup> For information as to possible substitutions, see *Bulletin*.

exercises, loci problems, mensuration of surfaces and solids. (e) Trigonometry (One half-unit): The principal formulas, simple equations and triangles, theory and use of logarithms (without infinite series).

*Candidates for admission to the Schools of Mines, Engineering, and Chemistry and for the School of Architecture must offer solid geometry and plane trigonometry.*

**Music.** NOTE—A candidate for admission to Columbia College may offer either (a) or (b). A candidate for admission to the School of Music (courses leading to a certificate in Music) may offer either (a) or (b) or both—with or without the addition of Musical Performance.

(a) Musical Appreciation (not involving ability to perform nor to read from printed music) (One unit). (1) The principal musical forms and their historical development; (2) the lives and environment of Bach, Mozart, Beethoven, Schubert, and Chopin, and five other composers; (3) familiarity with certain compositions designated in Bulletin.

(b) Harmony (One unit). The elements of simple harmonization.

(c) Musical Performance (Two units). The candidate should communicate with the School of Music regarding this requirement.

**Physics<sup>1</sup>** (One unit). The most important facts and laws in elementary physics. Preparation should include the mastery of a standard text-book supplemented by numerical problems, instruction by lecture with demonstrations and individual laboratory exercises—say, mechanics, 13; sound, 3; heat, 5; light, 6; electricity, 8.

**Physiography<sup>2</sup>** (One unit). Preparation includes modern text-books and at least forty individual laboratory and field exercises—say, earth as a globe, 5; ocean, 5; atmosphere, 12; land, 18.

**Physiology** (Counting one-half unit). *May be offered for entrance to the School of Practical Arts only.*

Not less than 90 hours of text-book, demonstration and laboratory exercises covering each of the main topics in Physiology.

**Shopwork** (One unit). Involving in each subject 180 laboratory hours examination, both written and practical, on the use and structure of tools, nature of shop processes, methods of construction, and properties of materials. Authenticated models may be presented as evidence of technical skill.

The candidate may offer either (a) Woodwork—i, joinery; ii, turning and pattern-making, or (b) Forging, or (c) Machine-work.

<sup>1</sup> A certified note-book must be submitted (see p. 177).

<sup>2</sup> This is identical with the subject called Geography by the College Entrance Examination Board.

Spanish, Elementary (Two units). The requirements correspond to those in elementary French, see page 179.

Zoölogy (One unit). Laboratory and field study, supplemented by text-book and further reading. (1) General natural history of common American animal types. (2) Classification of animals into phyla and leading classes. (3) Structure of typical animals—say, frog or fish, decapod, earthworm, hydra, protozoön. (4) Physiology of the types studied and comparison of life-processes of animals and plants. (5 and 6) (in a very elementary way) Reproduction, embryology, and (optional) elements of cytology. (7) (optional) Biological history.



## REGULATIONS FOR THE DEGREES OF MASTER OF ARTS AND DOCTOR OF PHILOSOPHY

Candidates for the degrees of Master of Arts and Doctor of Philosophy known as the Higher Degrees must hold a baccalaureate degree in arts, letters, philosophy, or science, or an engineering degree, or have an education equivalent to that represented by one of these degrees, such equivalence to be passed upon in every case by the Executive Committee of the University Council.

Each candidate for a higher degree must present to the Dean satisfactory evidence that he is qualified for the studies he desires to undertake.

Candidates for the degrees of Master of Arts and Doctor of Philosophy must pursue their studies in residence for a minimum period of one and two years, respectively.<sup>1</sup> The year spent in study for the former is credited on account of the requirement for the latter. Residence at other universities may be credited to a candidate. In certain cases and by special arrangement, time exclusively devoted to investigation in the field will be credited in partial fulfilment of the requirement of residence. No degree will be conferred upon any student who has not been in residence at Columbia University as a graduate student for at least one year. The satisfactory completion of work at four Summer Sessions or at two Summer Sessions together with a half-year of the regular academic year, will be accepted as fulfilling the minimum requirement of one year of university residence for the higher degrees.

### DOCTOR OF PHILOSOPHY

Each student who declares himself a candidate for the degree of Doctor of Philosophy shall designate one principal or major subject and two subordinate or minor subjects.

Candidates are expected to devote about one-half of their time throughout their course of study to the major subject, and about one-quarter to each minor subject.

Except by vote of the Executive Committee of the University Council upon the recommendation of the Dean and the head of the department concerned, no candidate may choose his major and both minor subjects under one department.

<sup>1</sup> In practice three years of university residence subsequent to the attainment of the Bachelor's degree, or its equivalent, are usually necessary to obtain the degree of Doctor of Philosophy.

Major and minor subjects may not be changed except by permission of the Dean, on the approval of the heads of the departments concerned.

Both the professor in charge of the major subject and the Dean must pass upon the student's qualifications for the course of study he desires to pursue, and approve his choice of subjects before registration can be effected.

The subjects from which the candidate's selection must be made are:

#### UNDER THE FACULTY OF POLITICAL SCIENCE

Group I.—History and political philosophy: (1) Ancient and oriental history; (2) medieval history and church history; (3) modern European history from the opening of the 16th century; (4) American history; (5) history of thought and culture.

Group II.—Politics, public law and comparative jurisprudence: (1) Constitutional law; (2) international law; (3) administrative law; (4) Roman law and comparative jurisprudence.

Group III.—Economics and social science: (1) Political economy and finance; (2) sociology and statistics; (3) social economy.

In his choice of subjects under this Faculty, the candidate whose major subject lies within its jurisdiction is limited by the following rules:

A candidate for the degree of Doctor of Philosophy must select one minor subject outside of the group which includes his major subject, and one minor subject within the group which includes his major subject.

The candidate for the degree of Doctor of Philosophy must take, in his major subject, courses occupying at least four hours weekly during each required year of residence (provided that this number of hours be offered in the subject), and must also attend a Seminar during the period of residence. In each minor subject he must take courses occupying at least two hours weekly during each required year of residence.

#### UNDER THE FACULTY OF PHILOSOPHY

I. Major Subjects: (1) Philosophy; (2) psychology; (3) anthropology; (4) education; (5) linguistics; (6) comparative literature; (7) classical archaeology and epigraphy; (8) Greek language and literature, and, incidentally, Grecian history; (9) Latin language and literature, and, incidentally, Roman history; and the following, including in each case the study of both the language and the literature: (10) English; (11) Germanic; (12) Romance; (13) Sanskrit (with Pali) and Iranian; (14) Semitic languages; (15) Chinese. Nos. 1, 2, 3, 4, 6, 10, 11, 12, 13, 14, and 15 may each be offered as the equivalent of a major and one minor subject.

II. Minor Subjects: (1) Philosophy; (2) psychology; (3) anthropology; (4) education; (5) linguistics; (6) comparative literature; (7) Greek; (8) Greek archaeology; (9) Latin; (10) Roman archaeology; (11) Sanskrit; (12) Iranian; (13) English; (14) Anglo-Saxon; (15) Gothic; (16) Germanic

philology; (17) German language and literature; (18) Scandinavian languages and literatures; (19) Romance philology; (20) French language and literature; (21) Spanish language and literature; (22) Italian language and literature; (23) Hebrew; (24) Arabic; (25) Assyrian; (26) Syriac; (27) Ethiopic; (28) Semitic epigraphy; (29) Turkish; (30) Armenian; (31) Chinese; (32) Coptic; (33) Celtic; (34) Comparative religion.

A candidate for the degree of Doctor of Philosophy may, with the consent of the Dean and of the heads of the departments concerned, select both minor subjects within the same department, and may divide a minor subject, taking parts of two subjects germane to his major subject.

#### UNDER THE FACULTY OF PURE SCIENCE

(1) Anatomy; (2) astronomy; (3) bacteriology; (4) botany; (5) biological chemistry; (6) chemistry; (7) civil and sanitary engineering; (8) electrical engineering; (9) highway engineering; (10) geodesy; (11) geology; (12) mathematics; (13) mechanical engineering; (14) mechanics and electro-mechanics; (15) metallurgy; (16) mineralogy; (17) mining; (18) paleontology; (19) pathology; (20) pharmacology; (21) physics; (22) physiology; (23) zoölogy.

With the consent of the Dean, the major and one minor subject may be taken under one department. Both minor subjects may not be taken under one department without the consent of the Faculty.

Each student is given a registration-book in which to keep the record of courses attended. At the beginning and end of each course the professor in charge certifies the student's attendance by his signature. Before presenting himself for examination for any degree, the student shall submit his registration-book to the Dean in order that the Dean may satisfy himself that the required minimum number of courses has been attended.

Applications for the final oral examination for the degree of Doctor of Philosophy must be filed with the Dean at least two months before one of the three dates at which diplomas are issued (*viz.*, October, February, and June) in order to secure examination before that date.

Each candidate for the degree of Doctor of Philosophy shall present a dissertation embodying the results of original investigation and research on some topic previously approved by the professor in charge of the major subject. When such dissertation has been approved, it shall be printed by the candidate, and thirty copies shall be delivered to the Registrar. On the title-page of every such dissertation shall be printed the words: "Submitted in partial fulfilment of the requirements for the Degree of Doctor of Philosophy, in the Faculty of ———, Columbia University."

Each dissertation shall contain upon its title-page the full name of the author; the full title of the dissertation; the year and place of imprint, and, if a reprint, the title, volume, and pagination of the publication from

which it was reprinted; and there shall be printed and appended to each dissertation, in the form of a Vita, a statement of the place and date of birth of the author, of the educational institutions that he has attended, and a list of the degrees and honors conferred upon him, as well as the titles of his previous publications.

No candidate for the degree of Doctor of Philosophy is admitted to examination except on the recommendation of the professor who has approved the topic selected for the dissertation, indorsed by the professors in charge of the major and minor subjects. Every candidate must pass, besides such other examinations as the Faculty in charge of the major subject may require, an oral examination on all three subjects, and must defend the dissertation in the presence of that Faculty, or of so many of its members as may desire or as may be designated to attend.

In the Faculty of Political Science, the examination on the major and minor subjects and on languages, but not on the dissertation itself, may be held before the printed dissertation is submitted.

In the Faculties of Philosophy and Pure Science, the dissertation is not required to be printed until after the examinations of the candidate.

The general examination for the degree of Doctor of Philosophy will not be confined to the courses which the candidate has attended in Columbia University or elsewhere, or even to the field covered by such courses. The candidate is expected to show a satisfactory grasp of his major subject as a whole and a general acquaintance with the broader field of knowledge of which this subject forms a part.

The ability to read at sight French and German, to be certified in each case by the Dean, is required by all the Faculties.

In the Faculty of Political Science, the candidate must also show that he is able to read ordinary Latin, unless it shall have been previously certified by the professor, or professors, in charge of the major subject that ability to use this language is not necessary for the proper prosecution of the candidate's researches. On application to the Dean, the candidate may be examined on the required languages one year before presenting himself for the general examination on his major and minor subjects. If no such application be made, he will be examined on the languages in connection with the general examination on these subjects.

In the Faculty of Philosophy, admission as a regular student or as a candidate for the degree of Master of Arts does not admit to candidacy for the degree of Doctor of Philosophy. Only those students are admitted to candidacy for the degree of Doctor of Philosophy who (1) are recommended for such candidacy by the heads of the departments in which their major and minor subjects of study lie; (2) are certified as to their ability to read French and German by the heads of those departments; (3) are certified as to their ability to read Latin by the head of that department, provided that students whose major subject is philosophy,



psychology, anthropology, or education, shall not be required to meet this test when it is certified by the professor in charge of their major subject that an ability to read Latin is not necessary for the proper prosecution of their researches. The examinations in Latin, French and German shall be passed at least one academic year before the candidate presents himself for the degree.

Students holding the required first degree who are primarily registered in a professional school of Columbia University, or in an allied professional school, may be registered as candidates for the higher degree in the Faculty of Political Science, the Faculty of Philosophy, or the Faculty of Pure Science. In such a case the candidate must take his major subject under one of these Faculties, and must conform to all its rules as regards examinations, essay, and dissertation; but he may offer, as the equivalent of the two minor subjects, such of his professional courses as may be approved for that purpose by the Dean of the Graduate Faculties.

No student may continue to be a candidate for the degree of Doctor of Philosophy for a longer period than three years from the time he ceases to be in residence, nor for a longer period than six years from the time of his initial registration for a higher degree.

#### MASTER OF ARTS

Each student who declares himself a candidate for the degree of Master of Arts shall designate a department under which he elects to do the major part of his work and shall arrange, in consultation with and under the advice of that department, and subject to the approval of the Dean, a curriculum comprising at least the equivalent of eight full courses of graduate rank.

No curriculum for the degree of Master of Arts shall include more than four courses which the candidate offers for a professional degree, or for a certificate given in lieu thereof, in any professional school belonging to the University or affiliated with it.

No candidate for the degree of Master of Arts shall be permitted to register for less than the equivalent of one full course in any half-year.

An essay may be required of candidates for the degree of Master of Arts by the department of major interest or by the Faculty to which said department belongs; when required it shall take the place and be regarded as the equivalent of one full course of the curriculum.

Such essay shall be submitted to the appropriate department at such time as the department may designate. If the essay is accepted, two typewritten or legibly written copies, as prescribed by the existing regulation, shall be deposited with the Registrar at least two weeks before the candidate expects to receive his degree.

With the approval of the appropriate departments the Dean may credit work done at another institution, the courses to which such work is deemed



equivalent being entered in the curriculum as "completed elsewhere;" but at least five full courses of graduate rank must always be taken at Columbia University.

An undergraduate who at the beginning of any half-year is within twelve points of a bachelor's degree may be permitted, with the approval of the appropriate Deans, to take one graduate course with a view to counting it for a second degree; if within eight points, two; if within four, three. If such student afterwards matriculates as a candidate for the degree of Master of Arts, the graduate courses previously taken by him under this provision may be entered in his curriculum, without special permission, as "already completed."

On final certification by the Dean of the appropriate Faculty that all official regulations have been complied with, a candidate shall be recommended to receive the degree of Master of Arts for the satisfactory completion within a period of four years of an approved curriculum.

Diplomas are issued on Commencement day, on the third Tuesday in October, and on the third Tuesday in February. Corresponding to these dates, respectively, applications for examination for the degree of Master of Arts must be filed with the Registrar by April 15, July 15, and December 15. The completed essay when required must be deposited with the Registrar at least two weeks before the candidate expects to receive his decree. Extension of time for the completion of the essay may be granted only by the Dean of the Graduate Faculties. A candidate must have such general knowledge of his principal subject, apart from the satisfactory completion of particular numbered courses, as may be deemed necessary by the department concerned.

### MASTER OF LAWS

Any student who has graduated from an approved college or scientific school of collegiate rank, or who has successfully completed three years of undergraduate study in an approved college or scientific school, such course of study including satisfactory courses in Economics and in English and American History, and who has also successfully completed three years of study in an approved law school, and who shall thereafter during one year of residence at Columbia University satisfactorily complete a course of study approved by the Deans of the Faculties of Law and Political Science, shall be entitled to be recommended for the degree of Master of Laws.

## COLUMBIA COLLEGE

### The Faculty

President BUTLER

Dean KEPPEL

*Term expires 1913:* Professors DAVIS, ERSKINE, HAWKES, HAYES, HENSER, JONES, Chaplain KNOX, LOCKWOOD, MACLAY, MASON, F. G. MOORE, SEAGER, SHEPHERD, SICELOFF, WOODBRIDGE, WOODWORTH, YOUNG

*Term expires 1914:* Professors AGGER, <sup>1</sup>BEARD, DUNNING, FISKE, FONTAINE, JORDAN, KEYSER, MCCREA, MCGREGOR, MAYER, MEYLAN, MITCHELL (H.B.), SALT, SCHUYLER, <sup>1</sup>SELIGMAN, SHOTWELL, ALEXANDER SMITH, TASSIN

*Term expires 1915:* Professors CALKINS, COHN, CURTIS, EGBERT, FARRAND, FITE, GROVE, <sup>2</sup>HERVEY, JACOBY, <sup>2</sup>KEMP, LOISEAUX, LORD, MCCASTLINE, <sup>1</sup>MITCHELL(S. A.) (*Secretary*), ODELL, PERRY, THOMAS

### Standing Committees

ON INSTRUCTION: The Dean, *chairman*, Professors Thomas, Young, Calkins, H. B. Mitchell, Erskine and Hayes

ON SCHOLARSHIPS: The Dean, *chairman*, Professors Hawkes and Lockwood

Delegates to the University Council, see page 3.

### ADMISSION

#### To the Freshman Class

(See page 169)

#### Advanced Standing

A candidate for admission to advanced standing upon the basis of work done at another college should obtain and file, at least one week before the September or January entrance examinations, the appropriate application blank, with a transcript of his academic record, and a marked catalogue of the institution that he leaves.

Appropriate credits up to a maximum of 18 points of the 124 required may be made by students who offer more than the prescribed number of units at entrance.

<sup>1</sup> Absent on leave 1912-13.

<sup>2</sup> Absent on leave first half-year.

## Special Courses

Students of serious purposes who are in a position to fulfil the requirements for admission to the Freshman class or who have had a valuable educative experience in practical life, may be admitted as non-matriculated students to pursue courses without reference to any degree. For details see the current *Announcement of Columbia College*.

## Registration and Fees

(See page 41)

## Scholarships

(See page 450)

## PROGRAM OF STUDIES

The period within which the requirements for the degree of A.B. or B.S. may be satisfied varies with the capability and industry of the individual student. In most cases four years are spent in making the required number of points; students of ability and industry frequently complete the course in less time, especially if advantage be taken of courses in the Summer Session, or additional credit be gained by high standing; no student may spend more than six years as a candidate for a degree.

## General Regulations

1. The requirement for graduation is 124 points, the term "point" signifying the satisfactory completion of work requiring attendance one hour a week for one half-year, laboratory hours counting one-half.

2. When practicable, prescribed subjects must be taken during the first two years.

3. No combination of courses amounting to less than 12 or more than 19 points may be made in any half-year.

4. Prior to graduation the student must have completed the equivalent of three years of sequential study, in courses aggregating at least 18 points beyond the elementary requirement for admission, in each of two departments.

For A.B. candidates at least one sequence must be in Classical Philology, English, Germanic Languages and Literatures, History, Philosophy, or Romance Languages and Literatures; and for B.S. candidates at least one in Botany, Chemistry, Geology and Mineralogy, Mathematics, Physics, or Zoölogy.

5. Admission to courses depends strictly upon completion of the stated prerequisites. Where none is stated the course may be taken and counted for a degree by any student of the College.

6. A student whose record as to prescribed subjects is satisfactory to

the Committee on Instruction, is permitted upon completion of 94 points to elect two graduate courses which his previous training will enable him to pursue with profit.

7. No student may take more than four hours' work (not including laboratory work) on the same day, or more than nine hours' work per week in any one department.

8. No one-hour course will be allowed unless taken in connection with or as a supplement to a cognate course.

9. To be recommended for a degree, a student must have made at least 84 points in actual college residence and of these at least 24 in Columbia College.

#### Program of Studies for a Degree of Bachelor of Arts or Bachelor of Science with Honors

1. *Conditions of candidacy.* Any student free from entrance conditions may, with the approval of the Committee on Instruction, elect to study for a degree with honors and pursue a curriculum involving less prescribed work but more independent reading and more thorough study in chosen subjects than are required of the general candidates for a degree. Such students are listed as "Candidates for a degree with honors."

2. *The choice of honor subjects.* While it may, in appropriate cases, be made at a later date, the choice between the honor curriculum and the general curriculum is ordinarily to be made not later than April 15 of the Freshman year.

The candidate shall then choose one department in which he will offer honor work and shall be assigned to a representative of that department who shall thereafter act as his Faculty Adviser. In consultation with this Adviser the student shall elect, as he prefers, either one or two other sequential series of honor courses (see Rule 4, page 191), arrange a schedule of studies for the coming year, and submit the same for the approval of the Committee on Instruction not later than May 1.

3. *The honor sequences.* The granting of honors is dependent upon the completion with high standing of two or three approved three-year sequences together with such supplementary reading as may be required in connection therewith, and upon the candidate's performance in a final general examination covering the entire field of his honor work.

4. In the first year no extra work is required of the candidate for honors and no extra credit is given. In the second and the third years, the candidate is assigned supplementary reading, and provision is made for guiding this reading through personal conference or pro-seminars. In each subject an additional credit of two points each term is allowed for this supplementary reading when satisfactorily completed.

The attainment of an honor grade in the final general examination (see paragraph 7) entitles the student to an extra credit of four points for each sequence of courses.



5. *Prescribed courses.* The candidate for a degree with honors is relieved from much of the work prescribed for other students and in the case of students offering three honor sequences the following courses only are definitely prescribed: English A, History A, Mathematics A, Physical Education; and also Latin A or Greek 3-4, for A.B. candidates only; French A and B or German A and B, for B.S. candidates only.

Candidates offering but two honor sequences are expected to complete all the prescribed courses as given on page 191, or their substantial equivalent.

6. *Standing required of honor men.* If at the end of any term examination a student fail in two honor subjects to attain a grade of A or B, he is rejected as a candidate for honors and given appropriate credit toward an ordinary degree.

7. *Final examination for honors.* Upon the attainment of 112 points of College credit (or 116 for men offering but two honor subjects), including the satisfactory completion of the honor sequences, the candidate is given a final general examination in each of his three subjects. These examinations cover the class-room work of the three years, and test the extent and thoroughness of the assigned supplementary reading. A grade of A in all subjects entitles the candidate to receive a Bachelor's degree with highest honors. A combination of A's and B's entitles him to a degree "with high honors," and uniform grades of B to a degree "with honors." A candidate failing to win honors at his final general examination may be given appropriate credit towards an ordinary degree.

8. *The time required for the attainment of a degree with honors.* If a candidate chooses three honor sequences in subjects in which he presented the full entrance offering and which he pursued in his Freshman year, it is possible for him to attain a degree with honors in three years of College residence, without attending the Summer Session, but using the vacation for honor reading. Other candidates will require four years.

By remaining in residence four years the candidate may concentrate the general courses in the Freshman and Sophomore years, and devote his entire time as Junior and Senior to the pursuit of his honor study. This course is recommended wherever practicable.

9. *Honors as a preparation for professional study.* Students looking forward to entering upon the study of a profession will find in the appropriate honor courses the most thorough preparation for their later work; and the opportunity which is offered to obtain a Bachelor's degree with honors in three years preserves to the candidate for honors the advantages of the combined collegiate and professional course.

#### Program of Studies for the Degree of A.B. or B.S.

Unless the equivalents have been offered for admission, the following courses, counting in points as indicated, are prescribed for students who are candidates for a degree but not for honors:



English A and B (10); History A (6); French or German, A and B (12); Mathematics A (6); Philosophy A (6); Physical Education (2 or 4); and also for A.B. only, Latin A or Greek 3-4 (6); two half-year courses in Natural Science (6 minimum), or for B.S. only, Chemistry A and Physics A (16).

*A three-year program leading to the degree of B.S. with special reference to the professional courses in the Schools of Mines, Engineering and Chemistry has been organized and full information regarding it may be obtained from the Secretary of Columbia University.*

### Options in the Professional Schools

A student desiring to enter upon professional studies before graduation from the College, who has completed not less than 64 points in Columbia College<sup>1</sup> and with no deficiencies in prescribed work, may exercise one of the following options:

- (a) Upon receiving 72 points' credit he may take the studies of the first year in any one of the following professional schools of the University, provided he can satisfy the stated requirements for admission thereto, and may receive the degree of A.B. or B.S. upon the satisfactory completion of two years' work in such professional course:
  - The School of Mines, Engineering, and Chemistry
  - The College of Physicians and Surgeons
  - The Schools of Fine Arts (Architecture and Music)
  - The School of Journalism
- (b) Upon receiving 94 points' credit he may similarly take and count towards the Bachelor's degree one year's work in any of the above schools and also in the School of Law or by registering as a candidate for a diploma in teaching in Teachers College.

It should be noted that in general no course for which credit is given toward a professional degree may be included in the preliminary credit requirement.

### Other Options

In addition to the professional options outlined above, the students of the College may become candidates for the certificate of preparation for foreign service. See page (276.)

They may also under suitable circumstances offer toward the Bachelor's degree courses given at the Union Theological Seminary or the General Theological Seminary, or if they are within twelve points of receiving the Bachelor's degree, they may take certain graduate courses in addition to their undergraduate programs.

### Additional Credit for High Standing

The mark A in any two courses completed in a half-year or Summer Session (no course being counted twice) entitles the student to one point

<sup>1</sup> In exceptional cases, students of high scholarship who have completed two years of College work elsewhere may satisfy the residence requirement by the completion of 34 points, not including Summer Session or Extension Teaching.

of extra credit, provided he has not, in any of the courses pursued by him during the period, fallen below the mark B. In Physical Education a mark of C will not disqualify.

#### Advice to Students

All students admitted with conditions are assigned for advice to the Committee on Admissions until such time as their entrance deficiencies or conditions be removed. All candidates for honors are assigned for advice to a representative of the department in which they first elect honor work. All other students are assigned to the Dean of the College, or to such officer of instruction or administration as he may designate.

#### Grades, Credit, and Reports

The student's performance in a course is reported according to the following grades: A, excellent; B, good; C, fair; D, poor; F, failure.

A student who receives a mark of F in any prescribed course must repeat that course. In any half-year or Summer Session not more than one course, whether prescribed or elective, in which the student is marked D, may be counted toward a degree.

Within three weeks after the close of an examination period a final report of standing for the half-year is sent to the student, to his parent or guardian, and to his faculty adviser. The report indicates the number of points which the student has obtained to date and his deficiencies, if any, in entrance requirements and in prescribed courses. Tentative reports are also made at mid-term.

All petitions for changes in, or additions to, a student's record must be made within four months of the time at which the entry was made or should have been made.

#### Classification of Students

Matriculated students whose record as to entrance conditions and the completion of prescribed courses is satisfactory to the Committee on Instruction, are classified in the University Catalogue as follows:

*Freshmen*, those who have less than 26 points.

*Sophomores*, those who have completed 26 points.

*Juniors*, those who have completed 58 points.

*Seniors*, those who have completed 88 points.

#### Other Information Contained in Separate Announcement

The following matters are dealt with in the separately printed *Announcement of Columbia College* for 1912-13, which may be had upon application to the Secretary of the University.

Description of Hamilton Hall: Advice as to choice of studies: Regulations governing absences: Statement of courses which may be taken by College Students with their prerequisites: Personal relations of students: Probational standing: System of examinations.

## REGISTER OF STUDENTS.

### COLUMBIA COLLEGE

NOTE.—Matriculated students are classified according to the regulations printed in the *College Announcement* for 1912-13. Under these regulations some students who will graduate in 1913 and 1914, respectively, are enrolled in the lower classes.

#### SENIORS—CLASS OF 1913

AARONSON, ISAAC.....	New York City
ANDERSON, HERBERT HAMPTON.....	New York City
BAAR, EMIL N.....	New York City
BALL, DAVID SPENCER.....	New York City
BARR, SIMON.....	New York City
BARRETT, BEACH.....	Bloomfield, N. J.
BEEMER, JAMES GAGE, JR.....	Yonkers, N. Y.
BERK, WILLIAM LEONARD.....	New York City
BESTUL, HELMER JULIUS.....	Dennison, Minn.
BITTERMAN, ALBERT COURTLAND.....	Yonkers, N. Y.
BLUESTONE, EPHRAIM MICHAEL.....	New York City
BOBBÉ, SIDNEY S.....	New York City
BRAUS, LEON.....	New York City
BROCK, ARNOLD J.....	New York City
BROWN, FRANK J.....	New York City
BUCHTENKERCH, GEORGE CHARLES.....	New York City
BURKHARD, RUSSELL V.....	New York City
BURSTEIN, ABRAHAM.....	Cleveland, Ohio
BUTTERWORTH, GEORGE FORREST, JR.....	New York City
CALDWELL, GEORGE DANFORTH.....	Louisville, Ky.
CAMPBELL, WILLIAM MONTGOMERY.....	New York City
COATES, ARCHIE AUSTIN.....	New York City
COHN, CLARENCE IRVING.....	New York City
COLE, CHARLES A.....	New York City
COLE, HARRY DIX.....	New York City
COLP, RALPH.....	New York City
COOPER, MORRIS, JR.....	New York City
COX, WESLEY CINTRA.....	New York City
CRANDALL, HAROLD WARREN.....	Normandy, Mo.
CRANE, ALBERT LOYAL.....	New York City
CROW, ALLEN BENJAMIN.....	Keokuk, Iowa
CURRY, VINCENT EDWARD.....	Hyde Park-on-Hudson, N. Y.
CURTISS, GEORGE WARREN.....	Tarrytown, N. Y.
DICKIE, DOUGLAS PERRY.....	New York City
DOWNES, ELLIOTT HAWKRIDGE.....	New York City
DU BOIS, ARTHUR MASON.....	New York City
ENGEL, GABRIEL.....	New York City
FERSCH, CORNELIUS.....	New York City
FIKE, TRACY R. V.....	New York City

FINE, NATHAN.....	New York City
FOOTE, JAMES WILFORD.....	Elkland, Pa.
FOWLER, DUDLEY FREDERICK.....	New York City
FRANK, VICTOR.....	Chicago, Ill.
FRECH, ROBERT HUBERT.....	Teaneck, N. J.
FRIOU, GEORGE.....	New York City
GAHAGAN, ANDREW JESSE.....	Coushatta, La.
GATES, WILTON J.....	Nyack, N. Y.
GEER, FRANCIS HUNT.....	New York City
GINNEL, WILLIAM SHREVE, JR.....	New York City
GLOVER, CALVIN S.....	New York City
GOTTESMAN, MICHAEL.....	New York City
GRIFFIN, EGBERT BRADNEY.....	New York City
GRISCOM, ACTON.....	New York City
HAINES, DALLAS WAY.....	New York City
HAMBIDGE, GOVE JAY.....	New York City
HARRIS, RALPH SCOTT.....	Birmingham, Ala.
HENDERSON, HARRY BUCK.....	Cheyenne, Wyoming
HENDERSON, JAMES LAMBDEN.....	Philadelphia, Pa.
HILLAS, ROLAND ALEXANDER.....	West Hoboken, N. J.
HOCHSTEIN, LOUIS I.....	New York City
HOLDEN, TIMOTHY N.....	New York City
HOLLMANN, RICHARD F.....	New York City
HOLZMAN, MARTIN.....	New York City
HOUGHTON, SEYMOUR PHILLIPS.....	New York City
HOUSE, NATHAN C.....	New York City
HYMAN, MAXWELL.....	New York City
INGALLS, FREDERICK WILSON.....	New York City
JAQUES, SANDFORD.....	New York City
JOHNSON, NORMAN RICHARD.....	New York City
KADISON, MILTON.....	New York City
KAMAIKY, DAVID E.....	New York City
KAPLAN, MICHAEL.....	New York City
KEIL, GÜNTHER.....	New York City
KEMPVANÉE, JOHN CHARLES, JR.....	San Francisco, Cal.
KING, EMANUEL DAVID.....	New York City
KING, ROBERT M.....	New York City
KINNEY, JOHN APLIN.....	Buffalo, N. Y.
KINNEY, MORRIS.....	Butler, N. J.
KLEIN, EUGENE.....	New York City
KLOSTER, WALTER JOSEPH.....	New York City
KROLFIFER, JULIUS FREDERIC.....	New York City
KUPFER, WALTER SCOTT.....	New York City
LA DOW, STANLEY VAUGHAN.....	New York City
LAHEY, WILLIAM STUART.....	Jersey City, N. J.
LEVITT, ALBERT.....	Meadville, Pa.
LEVY, JEROME.....	New York City
LEWIS, CLARENCE LESLIE.....	New York City
LIPSCHULTZ, JACOB.....	New York City
LITTLE, JOHN THEODORE.....	New York City
LOGAN, WALTER.....	New York City
LOUIS, SIDNEY MAXWELL.....	New York City
LOWENSTEIN, ABRAHAM GABRIEL.....	New York City
MCCORMICK JOHN KERNAN.....	New York City
McELVARE, GEORGE GERARD.....	New York City



McELVARE, ROWLAND ROBBINS.....	New York City
McKENNA, EDWARD LAURENCE.....	New York City
MANN, JACOB.....	New York City
MARCUS, SIDNEY.....	Buffalo, N. Y.
MARION, PIERCE.....	Bayonne, N. J.
MAURICE, STEWART.....	Mamaroneck, N. Y.
MEENAN, DANIEL LEO, JR.....	New York City
MILHEISER, CLARENCE FREDERICK.....	Galveston, Texas
MOHR, WALTER R.....	New York City
MOON, PARKER LE ROY.....	Yonkers, N. Y.
MULWITZ, JACOB.....	Port Chester, N. Y.
MUTSCHELLER, ARTHUR.....	New York City
NICOLL, WILLIAM LEONARD.....	Newburgh, N. Y.
OGILVIE, PAUL MORGAN.....	Los Angeles, Cal.
O'NEILL, JAMES ALLAN.....	Jersey City, N. J.
OSSERMAN, HYMAN AARON.....	Edgewater, N. J.
PARDEE, IRVING HOTCHKISS.....	New York City
PARSONS, JAMES OTIS.....	Gouverneur, N. Y.
PERLOWITZ, CHARLES.....	New York City
PERLZWEIG, WILLIAM A.....	New York City
PERSON, CLARENCE.....	Catskill, N. Y.
PHELPS, FREDERICK LEHMAN.....	Waukesha, Wis.
PIKE, SAMUEL M.....	New York City
PINCUS, SOL.....	New York City
PISTNER, BERNARD.....	New York City
PRICE, JOSEPH.....	New York City
PROPPER, KARL.....	New York City
RANDOLPH, JOHN ANDERSON FITZ.....	New York City
REED, LYNN POWERS.....	New York City
REEDER, EDWIN HEWETT.....	Hastings-on-Hudson, N. Y.
REICHMAN, ROBERT.....	New York City
REUTTER, CHARLES ERNEST.....	New York City
REUTTER, ROBERT HENRY.....	New York City
RICHARDS, CHESTER RAYMOND.....	Muskogee, Okla.
ROSENBLATT, WILLIAM.....	New York City
ROSENTHAL, WILLIAM JOSEPH.....	New York City
SACHS, SAMUEL.....	New York City
SCHUEER, SIMON HAAS.....	New York City
SCHLOTTMAN, GUSTAVE.....	New York City
SELLEW, WALDO WHITE.....	New York City
SHANKS, NATHAN.....	New York City
SHARLIT, HERMAN.....	New York City
SHELLEY, HENRY VOGEL, JR.....	New York City
SHIBLEY, GERALD SPENCER.....	New York City
SINCLAIR, RALPH HANDS.....	New York City
SINGER, ANTON.....	West Hoboken, N. J.
SLATER, ALEXANDER.....	New York City
SMITH, ALAN DE FORREST.....	New York City
SMITH, IRVING DAVID.....	New York City
SPOONER, MALCOLM GREAME.....	Brookfield, N. Y.
STEARNS, GEORGE RAYNOLDS, JR.....	Buffalo, N. Y.
STECKLER, EDWARD LOUIS.....	New York City
STEINHARDT, LAURENCE A.....	New York City
STIEFEL, WALTHER ALBERT.....	South Orange, N. J.
STRAUSS, IRWIN DERNHAM.....	Holyoke, Mass.



SULZBERGER, ARTHUR HAYS.....	New York City
SWORDS, ALBERT TWOMBLY.....	New York City
TANG, YOUNG-LEE.....	Shanghai, China
TIDYMAN, WILLARD F.....	Marion, Kansas
TISHMAN, LOUIS.....	New York City
TRAGITT, HORATIO NELSON.....	Millbank, S. Dakota
UTERMYER, EUGENE MAURICE.....	New York City
VALENSI, ALBERT.....	New York City
VALENTINE, IRVING.....	New York City
WACK, WILLIAM HERMAN.....	New York City
WATERBURY, CHARLES HAROLD.....	Mamaroneck, N. Y.
WATSON, CUTHBERT MELROSE.....	West New York, N. J.
WEINER, STANLEY FELIX.....	New York City
WEINSTEIN, ALEXANDER.....	New York City
WELLINGTON, HERBERT GALBRAITH.....	Ft. Worth, Texas
WHITE, WALLACE.....	Pelham Heights, N. Y.
WILSEN, WILLIAM HARRY.....	Greenport, N. Y.
WILSON, SINCLAIR JOSEPH.....	New York City
WILSON, JAMES PERRY.....	Newark, N. J.
WOLK, ABRAHAM.....	Pittsburgh, Pa.
WYE, TOM SHEW.....	Canton, China
ZUKERMAN, DAVID.....	New York City

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## JUNIORS—CLASS OF 1914

ABT, FERDINAND WALTER.....	E. St. Louis, Ill.
ADLER, HAMILTON.....	New York City
D'AMATO, ORLANDO.....	New York City
BAGG, HALSEY J.....	New York City
BARNETT, CARLYLE REGINALD.....	New York City
BARTH, ERNEST ALBERT.....	New York City
BATURIN, MOSES.....	Harrisburg, Pa.
BECKWITH, ALBERT J.....	New York City
BEIDLEMAN, FRED ALLEN.....	New York City
BENDER, RAYMOND CASPAR.....	Elizabeth, N. J.
BERLINER, IRWIN M.....	New York City
BERNHEIM, ALFRED L.....	New York City
BERNSTEIN, BERNARD.....	New York City
BIRD, J. MALCOLM.....	New York City
BLACKWELL, JAMES MADISON.....	New York City
BOOTH, FRANK.....	New York City
BOTSFORD, JAY BARRETT.....	Mt. Vernon, N. Y.
BRADY, LEOPOLD.....	New York City
BUTLER, CHARLES ALLEN.....	New York City
BYRNES, JAMES HOWELL.....	New York City
CAWL, FRANKLIN R.....	New York City
CHASE, CHARLES HARRY.....	Julesburg, Colo.
CHENEY, GUY ARTHUR.....	Morrisville, Vt.
CLASS, JOHN LYONS.....	New York City
COHEN, SAMUEL C.....	New York City
CONELIN, HENRY THOMAS W.....	Ansonia Conn.
COWAN, JOHN HARDING.....	New York City
CRAMPTON, WILLIAM DE WITT, JR.....	Naugatuck, Conn.
DANZIG, SAMUEL V. H.....	Albany, N. Y.
DEMUTH, FRANK WOLF.....	New York City
DRESHER, HUDSON W.....	New York City

EGBERT, LESTER DARLING.....	New York City
ELLENWOOD, JAMES LEE.....	Dannemora, N. Y.
EXSTEIN, MYRON WEISMAN.....	New York City
FIREBAUGH, CARL WINFIELD.....	New York City
FISHER, HENRY LAPE.....	New York City
FORD, RUSSELL H.....	White Plains, N. Y.
GALT, JOHN MEARES.....	Williamsburg, Va.
GARRY, LOUIS S.....	New York City
GERSON, BERNARD FELIX.....	Montgomery, Ala.
GOODMAN, BENJAMIN.....	New York City
GORDON, FRANK A.....	Elizabeth, N. J.
GOTTLIEB, BERNARD.....	New York City
GRAFTON, HORACE KIRBY.....	New York City
GREEN, ALBERT A.....	New York City
GREENBERG, DAVID.....	New York City
GRIFFEN, RICHARD FIELD.....	New York City
GRIMSHAW, HENRY EWART.....	Garden City, L. I., N. Y.
HAAREN, ARTHUR HERMAN.....	New York City
HALE, RICHARDS.....	New York City
HALL, CECIL JOHN.....	New York City
HALL, CHARLES ERNEST.....	Dayton, Va.
HARVITT, ADOLPH.....	New York City
HAUBEN, LOUIS.....	New York City
HENDRICKS, HENRY SOLOMON.....	New York City
HENRY, LEONARD STARR.....	New York City
HERRING, ALBERT CRAWFORD.....	New York City
HERRING, JOHN WOODBRIDGE.....	New York City
HILL, WILLARD D.....	Cleburne, Texas
HIRSHCOFF, PINCUS.....	New York City
HOMLET, HARRY.....	Canton, China
HUBBARD, BELA.....	Detroit, Mich.
JENSEN, ERIK LEONHARD.....	New York City
JOHNSON, ALFRED ANTHONY.....	Englewood, N. J.
JOSEPHSON, EMANUEL M.....	Baltimore, Md.
KAUFFMAN, HENRY.....	Hackensack, N. J.
KAUFMAN, SAMUEL.....	Newark, N. J.
KELLY, EDWIN MANUEL.....	New York City
KERR, D. RENWICK.....	New York City
KNAPP, CHARLES MERRIAM.....	New York City
KNUTH, HERVEY GRAY.....	Newark, N. J.
KONARSKI, MICHAEL MIECZYSLAW.....	New York City
KROLL, ABRAHAM.....	New York City
KUHN, ISIDOR.....	New York City
LA CORTE, SALVATORE FRANCIS.....	Elizabeth, N. J.
LAGUARDIA, GARIBALDI.....	New York City
LASHER, JOHN KENNEDY, JR.....	Yonkers, N. Y.
LAZARUS, ARTHUR.....	New York City
LEGGETT, THOMAS HAIGHT, JR.....	Plainfield, N. J.
LINTZ, JOSEPH.....	New York City
LIVINGSTON, SAMUEL MAURICE.....	Northampton, Mass.
LORENTZ, MILTON MORDECAI.....	New York City
LYNCH, JAMES R., JR.....	New York City
MCCALLUM, JAMES DOW.....	Nutley, N. J.
MCMULTY, DONALD STUART.....	New York City
MAGNETTE, JULES, JR.....	Newark, N. J.

MANDELL, AMBROSE J. E.	New York City
MARKS, WILLIAM BENNETT	New York City
MATHESON, GEORGE WILSON	New York City
MAYER, DONALD REGIS	Meadville, Pa.
MILLER, DARYL BRANCH	New York City
MILLER, HAROLD WHARTON	New York City
MISCHLICH, HENRY LITCHFIELD	New York City
MORRIS, LLOYD REGINALD	New York City
MOSKOWITZ, DAVID H.	New York City
MURPHY, GEORGE BERNARD	New York City
NANKIN, ISAAC	New York City
NEKARDA, VICTOR FRANCIS	New York City
NIELSEN, LAWRENCE HENRY	New York City
NOLAN, ADRIANCE BUSH	New York City
NUSSBAUM, BENJAMIN	Pleasantville, N. Y.
NYLAND, FRITZ CHARLES	Glen Ridge, N. J.
PANG, CLINTON MINDIL	New York City
PETERSON, CHESTER WILLIAM	New York City
PHIPPS, FRANCIS HARBOE	Mount Vernon, N. Y.
PRÉTAT, ROBERT EDWARD	Waterville, Conn.
PURDY, JAMES HOWARD, JR.	New York City
RAPPAPORT, JACK L.	New York City
REILLY, HOWARD	New York City
ROGERS, MALCOLM FLETCHER	Oconomowoc, Wis.
ROHRS, GEORGE CARLTON	New York City
ROSEFF, ALEXANDER	Mt. Vernon, N. Y.
ROSENMAN, SAMUEL IRVING	New York City
ROTHWELL, ALBERT CYRIL	New York City
RUBIN, SAMUEL	New York City
SAGE, EDWARD W.	New York City
SAMUEL, MILTON	Bayonne, N. J.
SAMUELS, ARCHIE HARRY	New York City
SAMUELS, MILTON MORTON	New York City
SANDHUSEN, LOUIS HENRY	New York City
SCOTT, PETER ALFRED	Tottenville, N. Y.
SIMON, HENRY	New York City
SMITH, RALPH KITCHELL	East Liverpool, Ohio
SMITH, SOLVIN WILLIAM	New York City
SMITHERS, ADELBERT F.	New York City
SPENCER, EDGAR ALLEN BURR	New York City
STRAFFIN, HOWARD ALDEN	New York City
SUTLIFF, EDWARD HARRISON	New York City
TANZOLA, VINCENT	New York City
THOMPSON, WILLIAM GORDON	New York City
TONKONOGY, GEORGE, JR.	New York City
UNDERHILL, EDWARD MARVIN	Fishkill, N. Y.
VALENTINE, KENNETH STERLING	New York City
VAN ALSTYNE, WARD	New York City
VAN BUREN, MAURICE PELHAM	New York City
VEAZIE, WALTER BROAD	Ione, Wash.
VON HOFE, GEORGE D., JR.	New York City
VOORHIES, JAY	New York City
WARD, EDWARD DENVER	Ironton, Ohio
WEBB, GEORGE RAYMOND	Buffalo, N. Y.
WEISKOTTEN, HERBERT THEBERATH	New York City

WELLENKAMP, JOHN HENRY.....	New York City
WHELAN, FRANCIS RAYMOND.....	New York City
WILSON, JAMES.....	Jersey City, N. J.
WISE, HERBERT ALVIN.....	New York City
WORTHINGTON, JOSEPH EDWARD, JR.....	East Orange, N. J.
ZEMAN, FREDERIC DAVID.....	New York City
ZVIRIN, EMIL.....	Larchmont, N. Y.

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## SOPHOMORES—CLASS OF 1915

ALLEN, RALPH BERGEN.....	Manhasset, N. Y.
ALLISON, MILTON MYERS.....	Ingram, Pa.
AMANT, ALEXANDER.....	New York City
ANDREWS, GEORGE REID.....	Mount Gilead, N. Carolina
ANTHONY, HAROLD ELMER.....	New York City
ARMSTRONG, JOSEPH BARTLETT.....	New York City
AXELROD, HERMAN.....	New York City
BAKOVITZ, HARRY.....	New York City
BARON, JOSEPH.....	New York City
BARON, JOSEPH LOUIS.....	New York City
BARTHOLOW, BENJAMIN HILSDEN.....	Mt. Vernon, N. Y.
BAXTER, LEO MAURICE.....	Orange, N. J.
BENIKOFF, ALEXANDER.....	New York City
BERNSTEIN, LOUIS.....	New York City
BHADKAMKAR, PURNSHOTAM.....	Satara City, Bombay, India
BIERMAN, WILLIAM.....	New York City
BILDER, WALTER JENNINGS.....	Paterson, N. J.
BRAINERD, HOWARD RANDOLPH.....	New York City
BRAISLIN, WILLIAM DONALD.....	New York City
BRAVERMAN, BENJAMIN.....	New York City
BRENNECKE, HENRY CARL.....	New York City
BRINKERHOFF, HAROLD TICE.....	New York City
BROWN, CYRIL JAMES.....	Great Neck Sta., N. Y.
BROWN, JOHN EARLE.....	New York City
BURGHARD, EDWARD GEORGE.....	New York City
BUTLER, GEORGE PRENTISS, JR.....	Yonkers, N. Y.
CAMPBELL, DUNCAN.....	New York City
CANNON, TOWNSEND LAING.....	New York City
CASSIDY, PAUL VINCENT.....	New York City
CATZEN, BERTRAM HARRY.....	Baltimore, Md.
CHADWICK, HAROLD KING.....	Madison, N. J.
CHRISTIE, RICHARD.....	Hackensack, N. J.
CHUI, LEONG.....	Canton, China
CLARK, WILLIAM DANIEL.....	Katonah, N. Y.
COOPER, LEO MEYER.....	New York City
COVER, JOHN HIGSON.....	Johnstown, Pa.
COYKENDALL, GLENN BROWN.....	New York City
DANIELSON, LESTER CLARK.....	New York City
DARLINGTON, ELLIOTT CHRISTOPHER BEARNS.....	Harrisburg, Pa.
DAWSON, GEORGE MILLARD.....	Denver, Colo.
DERBYSHIRE, ALFRED JAMES.....	New York City
DICKINSON, HERBERT CODWISE.....	Irvington-on-Hudson, N. Y.
DICKINSON, JULIAN ALLEN.....	New York City
DU BOIS, ROBERT OGDEN.....	New York City
DUNBAR, DOUGLAS LINDSEY.....	Dobbs Ferry, N. Y.



DUNHAM, FRANKLIN GEORGE.....	New York City
DWYER, WALTER WILLIAM.....	New York City
EAST, ARTHUR MILTON.....	Fremont, Nebraska
EISER, MOSES N.....	Poughkeepsie, N. Y.
ELLINGER, LOUIS JULIUS.....	New York City
ELSTEIN, CHARLES.....	New York City
ELWYN, ADOLPH.....	New York City
ENSIGN, WILBUR POWELL.....	River Falls, Wis.
ETTINGER, NED DICKINSON.....	Angola, Ind.
EVANS, LEWIS ALEXANDER.....	Leonia, N. J.
FAY, THOMAS.....	New York City
FEIN, JACOB.....	New York City
FEINBERG, CLEMENT.....	New York City
FERN, SAMUEL SIDNEY.....	Elizabeth, N. J.
FINK, EMIL HENRY.....	White Plains, N. Y.
FOERSTER, WALTER FRANK LOUIS.....	New York City
FRIEDRICH, CHARLES H. S.....	New York City
FUSFELD, IRVING S.....	New York City
GINSBERG, ISIDORE.....	New York City
GODLEY, WILLIAM GREGORY.....	New York City
GOODMAN, HERMAN.....	New York City
GOODMAN, ISRAEL.....	New York City
GRAHAM, ALVIN LIDDON.....	New York City
GRANT, PRYOR McNEILL.....	Birmingham, Ala.
GROSSBAUM, BENJAMIN.....	New York City
HALDENSTEIN, ALFRED A.....	New York City
HALL, FRANCIS CHAUNCEY.....	New York City
HANMER, JACK LOCKWOOD.....	New York City
HENDRICK, PHILIP EDWARD, JR.....	Norwich, Conn.
HERBERT, WILLIAM A.....	New York City
HERRERT, KARL J., JR.....	Yonkers, N. Y.
HERMAN, HAROLD.....	New York City
HERMAN, SAMUEL.....	New York City
HERRMANN, GASTON JULIEN.....	New York City
HERSON, OTTO.....	New York City
HIGGINS, GILBERT HENRY.....	Bayonne, N. J.
HOFFMAN, MOSES DAVID.....	Newark, N. J.
HOUGHTON, LEONARD IRA.....	Walpole, N. H.
HUBBARD, J. SLATER.....	New York City
HUYLER, WASHINGTON CONNOR.....	Tenafly, N. J.
HYMAN, HAROLD THOMAS.....	New York City
ILSEN, WERNER REGINALD.....	New York City
ISAACS, HAROLD JOSEPH.....	New York City
JABINE, LOUIS.....	Yonkers, N. Y.
JACOBSON, DAVID LYON.....	Jersey City, N. J.
JEWETT, FREDERICK WILLIAM.....	New York City
JOHNSON, HERBERT BRIGHTWELL.....	New York City
JOHNSTON, WILLIAM SHERMAN.....	New York City
KAPLAN, JULIUS.....	New York City
KEMP, PHILIP KITTREDGE.....	New York City
KIMM, WILLARD IVES.....	Dolgeville, N. Y.
KLINGENSTEIN, PAUL HENRY.....	New York City
KOTTEK, HERBERT C.....	New York City
LAURIER, CARL.....	Montvale, N. J.
LEHMAN, EDWARD.....	Weston, W. Va.



LEONARD, CHESTER F.....	New York City
LICHT, ISIDORE J.....	New York City
LIPMAN, LEON.....	New York City
LIVINGSTON, LESTER CARLYLE.....	Youngstown, Ohio
LOESCH, HUGO GEORGE.....	New York City
LOS KAMP, HAROLD D.....	New York City
LOVE, JOHN WHEATLEY, JR.....	New York City
LYONS, LAWRENCE VOSBURGH.....	New York City
McCONNELL, DOUGLAS BOYD.....	New York City
McELHINNY, JOHN JOSEPH.....	New York City
MacLACHLAN, HOWARD J.....	Yonkers, N. Y.
MACROSSIE, ALLAN ALBERT.....	New York City
MALLORY, VIRGIL SEEBER.....	New Durham, N. J.
MARCUS, LAZERUS.....	New York City
MAY, MORTIMER.....	New York City
MEIERHOF, HAROLD L.....	New York City
MENKEN, HAROLD D.....	New York City
MEYER, HERBERT LINCOLN.....	New York City
MILBANK, ROBERT WATKINSON, JR.....	Riverdale-on Hudson, N. Y.
MILLER, HAROLD JAMES.....	New York City
MONSER, JOHN WILLIAM.....	New York City
MOORE, WALTER VAN OLINDA.....	New York City
MOORHOUSE, ERNEST BIRD.....	Tarrytown, N. Y.
MORIARTY, LOUIS PHILIP.....	Ossining, N. Y.
MUELLER, HAROLD HERMAN.....	Bronxville, N. Y.
MURNEN, ARTHUR LEE.....	Tacoma, Wash.
MURPHY, JAMES ADAM.....	Buffalo, N. Y.
NEUMANN, EMANUEL.....	New York City
NEVIN, WILLIAM M.....	New York City
NEWMAN, DOUGLASS.....	New York City
OELRICHS, HERMAN.....	New York City
OLAFSON, HAROLD SUMMERFIELD.....	New York City
OLDFIELD, CHARLES BELDING.....	Norfolk, Va.
O'NEALE, JAMES SAUNDERS, JR.....	New York City
O'REILLY, VINCENT JEROME.....	Jersey City, N. J.
OSGOOD, HAROLD SYMONDS.....	New York City
OSTERHUS, GUSTAV KVALB.....	New York City
OSTERMAN, CONRAD KOHLMAN.....	Jersey City, N. J.
OTTENBERG, SEYMOUR M.....	New York City
PASZEK, LEON FRANK.....	New York City
PATTERSON, WILLIAM ALFRED.....	New York City
PEARL, PAUL LOUIS.....	New York City
POTTER, MICHAEL.....	New York City
REIBEL, JULIUS.....	Elizabeth, N. J.
REUBEN, MILTON HAROLD.....	New York City
RHINEHART, ARCHIE E.....	New York City
RICE, HUGH S.....	Madison, N. J.
RICHARD, EDWARD KARL.....	New York City
RIGGS, BENJAMIN.....	Philadelphia, Pa.
ROBE, ARTHUR THOMAS.....	New York City
ROBERTS, LLEWELYN.....	New York City
ROBINSON, LELAND REX.....	East Orange, N. J.
ROMANOFF, MOSES.....	New York City
RONEY, JOHN LEE.....	N. Franklin, N. Y.
ROSENSTOCK, FELIX METZGER.....	New York City

ROSENTHAL, HARRY MORRIS.....	New York City
ROTHENBERG, DAVID M.....	New York City
SALWEN, EMANUEL.....	New York City
SANBORN, VINCENT GUY.....	New York City
SANDS, WALTER HAROLD.....	Mount Vernon, N. Y.
SCEVA, LEWIS.....	New York City
SCHMUCKLER, JACOB.....	New York City
SHAW, FRANK DUNLAP, 2nd.....	New York City
SILVERSTEIN, ABRAHAM.....	New York City
SLAYTON, MAXIMILLIAN HENRY.....	New York City
SMITH, GEORGE.....	Port Chester, N. Y.
SMITH, KENNETH.....	Los Angeles, Calif.
SOMERVILLE, RANDOLPH.....	New York City
SPENCE, PHILIP SUMNER.....	New York City
SPROAT, HOWARD ELWOOD.....	Grand Rapids, Mich.
STABLEFORD, RICHARD GORDON, JR.....	New York City
STAM, PETER, JR.....	Paterson, N. J.
STEIN, MORRIS.....	New York City
STERN, DAVID SUSSMAN.....	New York City
STOVER, SUMNER.....	East Orange, N. J.
SUSSMAN, SAMUEL ABRAHAM.....	New York City
SWEENEY, JOHN GORDON.....	Utica, N. Y.
TALAMO, JOSEPH.....	Worcester, Mass.
TANZOLA, JOSEPH JOHN.....	New York City
TENOPYR, OTTOKAR.....	New York City
THOMAS, JAMES AKIN, JR.....	New York City
TITLAR, RALPH S.....	Ossining, N. Y.
TRAINER, CAMILLUS ROGERS.....	Huntington, N. Y.
TRAUSIL, OTTO JOHANNES.....	Naunhof, Germany
TURETS, DAVID.....	Pittsburgh, Pa.
VALENTINE, HERBERT.....	New York City
VAN DYCK, VEDDER.....	Bayonne, N. J.
VAN GAASBEEK, HAROLD C.....	Kingston, N. Y.
VESSA, MICHAEL C.....	New York City
WANG, KEN.....	Shanghai, China
WATKINS, W. KENNETH.....	New York City
WEED, LOWREY ALBERT.....	Hillsdale, N. J.
WEIL, FRANK LEOPOLD.....	New York City
WEST, WILLIAM LAWRENCE.....	New York City
WESTERFIELD, WALTER HENRY.....	South Willington, Conn.
WHEELER, PAUL MOWBRAY.....	Monsey, N. Y.
WILSON, JOHN ALBERT.....	Bentham, England
WILSON, WILLIAM SATTERLEE.....	New York City
WOOD, ALEXANDER.....	New York City
WÜLFING, FREDERICK WILLIAM.....	New York City
WURM, CARL, JR.....	New York City
ZAHN, GEORGE WALTER.....	New York City
ZEYDEL, EDWIN HERMANN.....	New York City

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## FRESHMEN—CLASS OF 1916

ADAMS, DUNBAR BURCHELL.....	Bay Shore, N. Y.
ALLISON, JAMES WATERS, JR.....	Richmond, Va.

ANDREWS, JOHN CHISHOLM	New York City
APPELBAUM, EMANUEL	New York City
APPLEBY, EDGAR TOWNSEND	New York City
APPLEBY, FRANCIS STORM	New York City
ARCHER, DANIEL GORDON	Nyack, N. Y.
ASPINWALL, JOHN FAWKES	Jersey City, N. J.
ATWOOD, KIMBALL CHASE, JR.	Oradell, N. J.
AYRAULT, PAUL DANA	Harrison, N. Y.
BABCOCK, EDWARD HOWARD, JR.	New York City
BALDWIN, JOHN SEARS	New York City
BALLIN, DAVID BERNAM	New York City
BANTON, TRAVIS	New York City
BARKER, PRESCOTT ERSKINE	Yonkers, N. Y.
BARNES, FRANK EDWARD	Pownal, Vt.
BARONE, MELCHISEDECH ALFRED	Monson, Mass.
BARTHLOW, JAMES SUMMERFIELD	Mt. Vernon, N. Y.
BARTOW, CHARLES SINGLETON, JR.	New York City
BECK, EDWARD FREDERICK WILLIAM	New York City
BENNETT, CHARLES WATERBURY, JR.	New York City
BERICK, MORRIS	Cleveland, Ohio
BERINSTEIN, WILLIAM	New York City
BERKWITT, SOLOMON JAMES	Buffalo, N. Y.
BERNSTEIN, HAROLD	New York City
BIERHOFF, ALAN FREDERIC	New York City
BIJUR, SHERMAN M.	New York City
BLACK, DOUGLAS MCCREA	New York City
BÖHM, EDWIN MILTON	New York City
BRADY, FRANCIS LOYD	New York City
BRAUNFELD, SIGMUND	New York City
BRICKER, HARRY CHARLES	New York City
BRIDGES, MILTON ARLANDEN C.	New York City
BRIEANT, CHARLES LAMONTE	Ossining, N. Y.
BUCCI, NICHOLAS	New York City
BURGHARD, GEORGE EHRET	New York City
CHEN, CHIA HSUN	Hunan, China
CHURCH, JOHN ROOT	New York City
CLARK, EDWARD BURCHAM	New York City
CLARK, WARD RATHBUN	Oneida, N. Y.
COCHRAN, GEORGE GILFILLAN, JR.	New York City
COHN, CHARLES ELIAS	New York City
COHN, MILTON	New York City
COLLETTI, JAMES	New York City
CORBETT, WILLIAM HYSON	New York City
CORNWALL, CLIFT	Short Hills, N. J.
CRANE, ARTHUR SEYMOUR	New York City
Craven, JOHN DUNSTAN	Jersey City, N. J.
CRONENBERG, CHARLES WILLIAM	Mt. Vernon, N. Y.
CURRIER, GILMAN STERLING	New York City
CURRY, DAVID AUGUST	New York City
DELEHANTY, THORNTON	Pelham, N. Y.
DENNELLY, WALTER	Great Neck Sta., N. Y.
DEWAR, WILLIAM	New York City
DINNERSTEIN, MORRIS	New York City
DUNCAN, JAMES DONALD	New York City
DUNN, WALTER EMORY	New York City

EDINGER, ERNEST HAROLD.....	Jersey City, N. J.
EHRLICH, DAVID E.....	New York City
EMERICK, BENJAMIN IRVING.....	Ardsley, N. Y.
EMMERICH, WILLIAM MAURICE.....	New York City
ENGEL, SALTON.....	New York City
EPSTEIN, BERNARD.....	New York City
ERHARD, ZACHARY.....	New York City
ETTARI, OSCAR.....	New Rochelle, N. Y.
EVENS, LEON WILLIAM.....	New York City
EVERSON, DUANE REGINALD.....	New York City
FAIRCHILD, HOXIE NEALE.....	New York City
FINKLE, OSCAR GEORGE.....	Bolton Landing, N. Y.
FISCHER, HENRY.....	New York City
FLOWERS, HILAND LEE.....	New York City
FOGG, WENDELL.....	New York City
FOWLER, FRANKLYN DUNNING.....	New York City
FOX, EDWARD BROWN, JR.....	New York City
FRANCIS, LEE REYNOLDS.....	New York City
FRANKLIN, RUFORD DAVIS.....	Summit, N. J.
FREEDMAN, ISAAC.....	Washington, D. C.
FREY, WALTER GUERNSEY.....	New York City
GAITHER, EDWIN HAMPTON.....	New York City
GARNJOST, W. T. SHERMAN.....	Yonkers, N. Y.
GIBSON, A. WALLACE.....	New York City
GILBERT, EDWARD HOLMES, JR.....	New York City
GILMAN, COBURN.....	Denver, Colo.
GIRDNER, FREDERIC WILLIAM CONRAD.....	New York City
GOERLICH, ARTHUR CYRUS.....	New York City
GOLD, HENRY.....	Scranton, Pa.
GOLDMAN, MAURICE.....	New York City
GOLDSMITH, MARC.....	New York City
GOMERSALL, ROBERT.....	Nyack, N. Y.
GOODSTEIN, PHILIP.....	New York City
GOODWIN, WALTER CAMPBELL.....	New York City
GORDON, KENNETH JAMES.....	Weehawken, N. J.
GORDON, PHILIP.....	Newark, N. J.
GRAHAM, STERLING EDWARD.....	New York City
GREENBERG, ISIDOR ALFRED.....	New York City
GRESSER, ALBERT PARSON.....	New York City
GUGGENHEIM, ROBERT MILTON.....	New York City
GWATHMEY, WILLIAM RIDDLE.....	Nashville, Tenn.
HAGEMEYER, FRANK.....	New York City
HAMILTON, CHARLES EDWARD.....	New York City
HAMMERSTEIN, OSCAR.....	New York City
HANAWAY, ROY CLARK.....	New York City
HARVITT, HENRY GEORGE.....	New York City
HASKINS, BAYARD TREMAIN.....	Wellsville, N. Y.
HASTINGS, FREDERICK ALLEN.....	New York City
HEARN, CORNELIUS, JR.....	New York City
HELMS, HAROLD H.....	Randolph, N. Y.
HENNE, ARTHUR WILLIAM.....	New York City
HICKEY, EUGENE THOMAS.....	Ellicottville, N. Y.
HILBORN, DUDLEY DAVID.....	New York City
HILDRETH, LELAND JAGGAR.....	Southampton, N. Y.



HILLDRING, JOHN HENRY.....	New Rochelle, N. Y.
HOFFMAN, STODDARD.....	New York City
HOFFMANN, ALBERT SIEGFRIED.....	New York City
HOLTHUSEN, HENRY FRANK.....	New York City
HOLZINGER, JOHN JACOB.....	New York City
HOWARTH, WINSLOW.....	Detroit, Mich.
HOWE, JOHN BELL.....	Independence, Mo.
ISSELHARDT, LOUIS ADAM.....	New York City
JACKSON, LYLE WILLIAM.....	New York City
JIMENIS, EDWIN ANTHONY.....	New York City
JOHANSON, ALBERT MATHREW.....	New York City
KAHN, ELLIOTT MAURICE.....	New York City
KASHDEN, HARRY A.....	New York City
KERBY, PHILIP CLYDE.....	New York City
KILLOUGH, WALTER HENRY DEAN.....	New York City
KLAUSNER, DAVID MAURICE.....	Jersey City, N. J.
KLEIN, ISRAEL.....	New York City
KORNSAND, EDMOND SYLVAN.....	New York City
KRANDLE, HENRY MILTON.....	New York City
KUPFER, MILTON PHILIP.....	New York City
LAGUARDIA, CINCINNATI JOHN.....	New York City
LAMB, HAROLD ALBERT.....	New York City
LEE, JOHN CHARLES, JR.....	New York City
LEE, YOUNG WEI.....	Kwongtung, China
LEVINE, ISIDORE BAER.....	New York City
LEVINSKY, AARON.....	New York City
LION, HAROLD SIDNEY.....	New York City
LOEW, ALBERT EDWARD.....	New York City
LOEWY, MAURICE BERNHARD.....	Hoboken, N. J.
LOGAN, CHARLES THOMAS, JR.....	Palisade, N. J.
LOWE, GILBERT RANNEY.....	Ridgefield, Conn.
McCALLUM, KENNETH LEE.....	New York City
McCRACKEN, ROBERT WYLIE.....	New York City
McHALE, WILLIAM JOSEPH.....	New York City
McKINLESS, RAYMOND.....	Yonkers, N. Y.
MACK, ALLAN WINTHROP.....	New York City
MACKENZIE, RICHARD.....	Dobbs Ferry, N. Y.
MAC NAIR, IRA PRESTON.....	New York City
MAHON, ELWOOD JOHN.....	New York City
MALISOFF, WILLIAM.....	New York City
MARGOLD, CHARLES.....	New York City
MARIANO, JOHN.....	New York City
MARKERT, ROY HENRE.....	Zanesville, Ohio
MAYER, JACK WILBUR.....	New York City
MAYERS, LESTER.....	New York City
MENDES, ABRAHAM PIZA.....	New York City
MEYER, DAVID LEOPOLD.....	New York City
MEYER, H. WILLY.....	New York City
MILLER, HOWARD, JR.....	New York City
MOON, M. STUART.....	Yonkers, N. Y.
MOOREHEAD, HARRY McLEOD.....	New York City
MORRIS, WILLIAM.....	New York City
MOSSMAN, JOHN MALCOLM.....	New York City
MOUQUIN, LOUIS H. F.....	New York City
NAUMER, HARRY AUGUST.....	New York City



NEWBURGER, MORTON JOEL.....	New York City
NEWMAN, FRED WHITLOCK.....	New York City
NEWMAN, JULIEN WHITLOCK.....	New York City
NEWSOM, HEBER ALLEN.....	New York City
NOLAN, THOMAS JOSEPH.....	Jersey City, N. J.
NOONAN, RAYMOND L.....	New York City
NOREK, ALFRED.....	New York City
OBERRENDER, GIRARD FRANKLIN.....	South Orange, N. J.
O'MALLEY, COLUMBUS AMBROSE.....	Yonkers, N. Y.
ORAM, RUSSELL MAXFIELD.....	New Brunswick, N. J.
OSSWALT, ROBERT LEWIS.....	New York City
OSTROW, AUGUST.....	Newark, N. J.
PADWE, FRANK.....	Jersey City, N. J.
PAINE, GEORGE EUSTIS.....	New York City
PALMER, HERBERT MARTIN.....	New York City
PALMER, HOWARD WELCH.....	Watertown, N. Y.
PEARLMAN, JOSEPH.....	New York City
PERRY, RALPH REDMAN.....	Hackensack, N. J.
PETCHTLE, CLAUDE BOUCK.....	New York City
PFEIFFER, WALTER PRICE.....	New York City
PINK, CLARENCE EDWARD.....	Cambridge, Maryland
PORTER, ELBERT STOTHOFF.....	New York City
PRINCE, JOHN DYNELEY, JR.....	Sterlington, N. Y.
QUINLAN, JOHN THOMAS.....	New York City
RADO, HENRY RUDOLPH.....	Mt. Vernon, N. Y.
RAINES, MORRIS ABEL.....	New York City
RANDALL, BRADLEY.....	Pelham Manor, N. Y.
RICE, JULIAN.....	New York City
RICHARDS, ROWLAND WHELDON.....	New York City
RICHARDS, JULIUS KAPLAN.....	Glendale, L. I.
ROBERTS, GEORGE HENRY, JR.....	Peekskill, N. Y.
ROGERS, HERBERT WESLEY.....	New York City
ROTHENBERG, WILLIAM.....	Arlington, N. J.
ROWLAND, FLOYD HOOKWAY.....	Walden, N. Y.
RUBIN, HENRY SAMUEL.....	Bayonne, N. J.
RUSS, PHILIP WILLIAM.....	New York City
SALVATORE, PAUL JOHN.....	New York City
SAMUELS, SAUL SIMON.....	New York City
SCARDACCIONE, ALEXANDER ANSELM.....	New York City
SCHERPICK, EUGENE ARTHUR.....	New York City
SCHOENZEIT, EMANUEL.....	New York City
SCHULZ, ALEXANDER WILLIAM.....	New York City
SCHWANDA, WILLIAM EDWARD.....	Winfield, L. I., N. Y.
SCOFIELD, GLENNI WILLIAM.....	Warren, Pa.
SENGSTACK, JOHN LOUIS.....	Tivoli, N. Y.
SHANHOLT, HARRY.....	New York City
SHANLEY, JOHN ALOYSIUS.....	New York City
SHEA, EDWARD HENRY.....	New York City
SHEFFER, EARLE CRYLON.....	Shortsville, N. Y.
SHELDON, BRUCE SMITH.....	New York City
SIEGEL, JULIUS.....	New York City
SIEGLER, JULIUS.....	Jersey City, N. J.
SILVER, MAXWELL.....	New York City
SILVERSTEIN, HENRY.....	New York City

SIMONDS, FRANCIS MAY, JR.	New York City
SINGER, CLARENCE SHULMAN	New York City
SLOBODIEN, JACOB	Perth Amboy, N. J.
SMITH, MOWRY	Neenah, Wis.
SERLING, ELLIOTT MARK	New York City
SPIERO, GERALD BERNARD	New York City
SPINGARN, SAMUEL	West Hoboken, N. J.
STEINER, LEO	Newark, N. J.
STERN, CHARLES HAROLD	New York City
STERN, LEO	New York City
STILLMAN, WALTER MARTIN	Council Bluffs, Ia.
STONE, STEPHEN GRANT	New York City
STRAUSS, SAMUEL WOLFF	New York City
SULZBERGER, SHERIDAN ULLMANN	New York City
TASHOF, JACOB JULIAN	New York City
TAYLOR, EDMUND WILEY	New York City
TAYLOR, WALLACE DOYLE	New Rochelle, N. Y.
THACHER, CLIFTON OTIS	North Dartmouth, Mass.
THOMPSON, RAY WALDO	Tuckahoe, N. Y.
TICHENOR, CLIFFORD LEIGH	Mt. Vernon, N. Y.
TODD, WARWICK HANFORD	Dobbs Ferry, N. Y.
TOORANS, MORRIS	New York City
TOPALIAN, HAROUTUNE VANES	Weehawken, N. J.
TOWNSEND, ALFRED WALTON	New York City
TRISCHETT, S. SEYMOUR	New York City
TUREK, HENRY THEODORE	New York City
ULMER, FRED	New York City
UNGER, WILLIAM	New York City
UPDIKE, GODFREY ERNST	New York City
VAN NESS, CARL CONDIT	Newark, N. J.
VON HOPE, FREDERICK H.	New York City
WARNER, DANIEL DUDLEY	Riverhead, N. Y.
WEAVER, JOHN HOWARD	New York City
WEISSENBORN, HENRY CHRISTIAN	New York City
WIENER, LESTER JOSEPH	New York City
WIENER, MERVYN GERALD	Newark, N. J.
WILLIAMS, GARDNER	New York City
WILLIS, HAROLD SATTERLEE	New York City
WINANS, HERBERT	New Rochelle, N. Y.
WISE, RAYMOND LEO	New York City
WOLFF, MARCUS SALBERG	New York City
WOOD, FRANCIS APPLETON	New York City
ZEE, TUK KWANG	Shanghai, China
ZENT, EDWARD GEORGE	Williamsville, N. Y.
ZIMMER, DANIEL BECKER	New York City
ZOELLNER, HERBERT WILLIAM	Deadwood, S. Dakota

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The following students are taking the first year of the course in Journalism, and are subject to the educational control of the Faculty of Columbia College:

ACKER, JAMES GORDON	New York City
ADLER, STANLEY LEON	New York City
BARTLETT, KENNETH HAYDEN	Yonkers, N. Y.
CLARK, TRACY	Hughesville, Penna.
DIAMOND, EMANUEL	New York City
GEFFEN, MAXWELL	Fordham, N. Y.

GODING, ARTHUR TUTTLE.....	N. Acton, Mass.
JANNEY, SAMUEL M., JR.....	New York City
KITCHEN, VICTOR CONSTANT.....	East Orange, N. J.
MORGAN, CHARLES LEMON.....	Indianapolis, Ind.
NICHOSON, ALEXANDER A.....	Jersey City, N. J.
SANDERS, GILBERT.....	New York City
SWEET, FRANK HAMMOND, JR.....	Grand Rapids, Mich.
TOLISCHUS, OTTO DAVID.....	New York City
WALSH, HARRY J.....	New York City
WARD, MORRIS RAWORTH.....	Denver, Colo.
WENDOVER, SANFORD HUTTON.....	Warwick, N. Y.

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## NON-MATRICULATED STUDENTS

BALDWIN, JOHN BRAITHWAITE.....	New York City
BELLINGER, WILLIAM HART.....	New York City
BERMAN, LOUIS E.....	New York City
BUSH, ABRAHAM MOSES.....	New York City
COHEN, LOUIS J.....	New York City
DILLS, DUANE R.....	Scranton, Pa.
GELIEBTER, PHILIP H.....	New York City
GOLDFARB, ISRAEL.....	New York City
HAUGHWOUT, FRANK GODDARD.....	New York City
HORTON, WILLIAM STEURER.....	Yonkers, N. Y.
HUISKAMP, JOHN EDABDUEL.....	Keokuk, Iowa
KIRLIN, RALPH.....	New York City
KNOX, WILLIAM JOHN, JR.....	New York City
KÖSTER, AXEL.....	Hamburg, Germany
MOOREHEAD, HORACE R.....	Bronxville, N. Y.
NOLAN, JOHN LOUIS LEO.....	New York City
NOYES, EUGENE J.....	New York City
REESE, ROBERT ADDISON.....	Eatontown, N. J.
ROBINSON, ALLEN CAMPBELL.....	Honolulu, Hawaii
ROUVILLAIN, EUGÈNE ÉTIENNE.....	New York City
SNOW, ERASTUS.....	Salt Lake City, Utah
TAYLOR, JOHN MOORE.....	Indianapolis, Ind.
WHITE, ARTHUR KENT.....	Bound Brook, N. J.
WINN, ROLAND.....	Juneau, Alaska
YAMAGUCHI, KYUSABURO.....	Cambridge, Mass.
ZIETLOW, CASSIUS FREDERICK.....	New York City

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## SUMMARY

## Candidates for Degrees:

Seniors.....	171
Juniors.....	148
Sophomores.....	203
Freshmen.....	266
First-year Journalists.....	17
Non-matriculいたes.....	26
Total.....	831

## SCHOOL OF LAW

### The Faculty

President BUTLER

Dean STONE

Professors ABBOTT, BURDICK, CANFIELD, GOODNOW, GUTHRIE, KIRCHWEY, MOORE (J. B.), SMITH (Munroe), REDFIELD (*Secretary*), TERRY.

---

Mr. DORR

Mr. ARNOLD

Mr. REYNOLDS

Mr. HAZELTINE

Mr. WHITAKER

Judge HOLT

---

Delegates to the University Council, see page 3.

### PURPOSES OF THE SCHOOL

The design of the School of Law is to afford a thorough, practical, and scientific education in the principles of: The common and statute law of the United States: The English and American system of equity jurisdiction: The public law of the United States and Europe: The Roman law—ancient and modern: Theoretical and comparative jurisprudence.

Opportunity is given through short special courses (see page 120) for specializing in particular fields.

### REQUIREMENTS FOR ADMISSION

All applicants for admission must present satisfactory evidence of good moral character.

Admission to the School of Law as a matriculated student will be upon one of the following three conditions:

(a) Graduation from an approved college or scientific school of collegiate rank.

(b) The successful completion of three years of undergraduate study in an approved college or scientific school, which course of study must have included satisfactory courses in Economics and in English and American History.

(c) In lieu of either of the above, the presentation of satisfactory evidence of preliminary training obtained in higher institutions of learning, in this country or abroad, equivalent to that prescribed in either of the foregoing paragraphs (a) or (b).

For detailed description of courses see page 119.

### Advanced Standing

Students complying with the above requirements for admission to the School, who have, in addition, successfully pursued the study of law for at least a year in an approved law school, examination giving satisfactory evidence of proficiency in the studies of the final year, may be admitted to advanced standing as members of the second year class. Examinations are usually required in the more important first year subjects.

No one will be admitted to advanced standing beyond the second year except by special vote of the Faculty.

The examinations for advanced standing cover all the work previously done by the class to which admission is sought, and are held at the end of the half-year in which the respective subjects are given and during the week preceding the opening of the fall term. Examinations may be dispensed with and credit given on certificate for courses satisfactorily completed in an approved law school in cases where such courses are deemed by the Faculty equivalent to the corresponding courses given in this School.

### Non-Matriculated Students

Duly qualified persons not candidates for the degree of LL.B. may be admitted as non-matriculated students on presenting such evidence as the Faculty may require of their exceptional fitness to undertake with advantage the study of law. Applicants must usually have two years or more of College or Law School work to their credit and must be at least twenty-one years of age.

## EXAMINATIONS

Written examinations are held at the end of each half-year on the subjects completed during that half-year and on the subjects of the first and second years during the week preceding the opening of the academic year.

All students, whether matriculated or non-matriculated, must, unless excused by the Dean, present themselves for examination in all the subjects for which they are registered at the first examination held therein, and, in case of excuse from any examination, must take the next examination offered in such subject. *A student permitted to take a deferred examination must pay a fee of five dollars as for a deficiency examination.* Students are not permitted to take examinations in courses for which they are not regularly registered.

At all stated examinations the standing of students will be indicated by the letters A, B, C, D, and F, representing *Excellent, Good, Fair, Poor, and Failure*, respectively. These grades will be part of the record of the students in the office of the Registrar, and will be reported to them as soon as possible after each examination.



No student will be admitted to the second-year class who is deficient in more than four hours of the work of the first year. No student will be admitted to the third-year class who is deficient in any subject of the first year, or in more than one full course or in more than two half-year courses of the second year.

No student failing in any subject will be permitted to take a second examination therein without having again taken the course in which such failure occurred, nor will any student failing a second time in any subject be allowed to continue in the School except by special vote of the Faculty.

No special examinations are given.

## THE CURRICULUM

### DEGREES

#### Bachelor of Laws

The required work for the degree of Bachelor of Laws consists of 74 points, each point representing the satisfactory completion of work requiring attendance one hour a week for one half-year. This requirement is usually met by a program of thirteen hours per week in the first year and of twelve hours per week through the second and third years.

No student doing full work may take less than twelve nor more than fourteen hours per week in any half-year.

Students registered in the Law School will, on approval of the Faculty, be credited with law courses successfully completed by them in the Summer Session of the University.

Not more than one full course representing four points nor more than two half-year courses representing three points each in which the student receives a mark of D may be counted toward a degree in any one year.

No student failing in any subject on the final examination of his class will be admitted to the degree unless within two years of such failure he presents himself for re-examination and receives a mark of C, at least, therein.

Non-matriculated students who have been members of the School for at least two years may become eligible for the degree if they shall have attained an average of B in all the work prescribed therefor.

#### Master of Laws

(See page 189)

#### Higher Academic Degrees

The degrees of Master of Arts and Doctor of Philosophy are also awarded for work done in part under the Faculty of Law. See page 184.

**Scholarships and Prizes**

(See page 450)

**Fees**

(See page 41)

**Law Library**

(See also page 50)

The Law Library has been greatly extended and improved, and now consists of upwards of 50,000 volumes, which have been carefully selected to meet the wants of students. It contains practically every reported decision of the American, English and British Colonial courts, and good working collections of American and foreign statute law, Roman and modern civil law, and jurisprudence. Lectures on legal bibliography and the use of law books are given by the Law Librarian.

# PROGRAM OF STUDIES

FIRST YEAR		SECOND YEAR		THIRD YEAR	
SUBJECT	HRS.	SUBJECT	HRS.	SUBJECT	HRS.
<i>1st Half</i> Contracts Criminal Law American Constitutional Law Elements of Law Torts	4 3 1 3 2	<i>1st Half</i> Agency Domestic Relations Equity I Insurance Pleading and Practice II Real and Personal Prop. II Sales of Personal Prop. Amer. Const. Law II Institutes of Roman Law	3 2 3 2 4 2 2 2 3	<i>1st Half</i> Corporations Equity II Evidence Partnership Pleading and Practice III Real and Personal Prop. III Conflict of Laws International Law Law of Officers Law of Taxation	2 3 4 3 3 2 1 2 2
<i>2nd Half</i> Contracts Pleading and Practice I Real and Personal Prop. II Torts	4 3 4 2	<i>2nd Half</i> Carriers *Bankruptcy and Insolv. Negotiable Paper Quasi-Contracts Real and Personal Prop. II Sales of Personal Prop. Trusts American Const. Law II	3 2 3 3 2 2 3 2	<i>2nd Half</i> Corporations Mortgages Real and Personal Prop. III Suretyship N. Y. Trusts Wills and Administration Conflict of Laws International Law Municipal Corporations	2 3 2 2 2 3 3 1 2

+ Omitted in 1913-1914.

\* Omitted in 1912-13.

*Special Courses:* English Legal History. Admiralty. Federal Jurisdiction. Patent Law. Law of Mining and Irrigation. Trial Evidence. Readings in the Digest of Justinian. Modern Civil Law. History of European Law.

## REGISTER OF STUDENTS

### School of Law

#### THIRD YEAR—CLASS OF 1913

ACHESON, ALBERT ATWOOD, B.L. California 1911.....	Berkeley, Cal.
ALLEN, WINFRED COLWELL, A.B. C. C. N. Y. 1910.....	Mt. Vernon, N. Y.
ALVINO, JOHN FRANCIS, A.B. C. C. N. Y. 1910.....	New York City
AXMAN, LAWRENCE HENRY, A.B. 1911.....	New York City
BANGS, FRANCIS NATHAN, A.B. 1910.....	New York City
BARBER, THOMAS HUNT, A.B. Harvard 1910.....	Southampton, N. Y.
BASSFORD, CHARLES HOBBY, A.M. 1911, B.S. Trinity 1910.....	Newark, N. J.
BEHR, NORMAN MAX, A.B. Indiana 1910.....	Noblesville, Ind.
BENDER, SIDNEY, A.B. 1911.....	New York City
BERLINER, EPHRAIM, A.B. C. C. N. Y. 1910.....	New York City
BRANDT, ROBERT CARL, A.B. 1911.....	New York City
BRODSKY, HYMAN, A.B. Harvard 1910.....	Bayonne, N. J.
BROWN, HAROLD STUART, A.B. Amherst 1908.....	Belmont, N. Y.
BUTLER, LYMAN C., A.B. Princeton 1910.....	New York City
CALHOUN, HAROLD GILMORE, A.B. Tarkio 1906.....	Summersfield, Kan.
CARLIN, J. FRANCIS, A.B. Georgetown 1910.....	New York City
CARR, EDWARD QUINTIN, A.B. Georgetown 1910.....	New York City
CARUSO, CARMINE WILLIAM, A.B. 1911.....	Newark, N. J.
COAD, RALPH G., A.B. Nebraska 1911.....	Omaha, Neb.
COHEN, SAMUEL MICHAEL, A.B. Yale 1910.....	Hartford, Conn.
COLVER, FREDERIC B., A.B. Princeton 1910.....	Tenafly, N. J.
COMPTON, GEORGE BROKAW, A.B. 1909.....	New York City
CONROY, JAMES GARDINER, A.B. Holy Cross 1910.....	New York City
CORNELIUS, CHARLES L., A.M. 1912, A.B. Vanderbilt 1910.....	Nashville, Tenn.
COUSINS, ROBERT BARTOW.....	Canyon, Texas
CRATER, JOSEPH FORCE, A.B. Lafayette 1910.....	Easton, Pa.
CRISPELL, REUBEN BERNARD, A.B. Yale 1910.....	Kingston, N. Y.
DAVENPORT, HARRY THOMPSON, B.L. Whitman 1908.....	Colfax, Wash.
DAVID, WALTER FESTUS, A.B. William Jewell 1910.....	Maryville, Mo.
DAVIS, WILBUR FISK, A.B. Yale 1910.....	Meriden, Conn.
DAWKINS, SPENCER MORGAN, A.B. Wofford 1903.....	Spartanburg, N. C.
DEGROOT, MITCHELL BENJAMIN, A.B. Amherst 1910.....	E. Orange, N. J.
DESILVER, ALBERT, A.B. Yale 1910.....	New York City
DUGGAN, JAMES EDWARD, A.B. Spring Hill 1910.....	Mobile, Ala.
EBERT, JOSEPH FRANCIS, A.B. Nebraska 1911.....	Cambridge City, Ind.
EICHMANN, MEYER, A.B. 1911, A.M. 1912.....	W. Hoboken, N. J.
ERSKINE, ROBERT SCARBOROUGH, A.B. 1910.....	New York City
FALLON, PERLIE PETER, A.B. Clark 1910.....	Groton, Mass.
FARKAS, LEONARD, B.S. Georgia 1910.....	Albany, Ga.
FARR, HENRY BARTOW, A.B. Princeton 1910.....	New York City
FARR, WILLIAM M., A.B. William Jewell 1910.....	Carrollton, Mo.
FELBEL, FRANK JULIUS, A.B. 1911.....	New York City

FERGUSON, FRANKLIN POMEROY, A.B. Harvard 1910.....	Jamaica, N. Y.
FINDLEY, EVERETT THORNTON, A.B. Princeton 1910.....	Newark, N. J.
FONDILLER, RICHARD, A.M. 1912, B.S. C. C. N. Y. 1903.....	New York City
FRANK, MAX, A.B. 1911.....	New York City
FRITTS, FRANK, A.M. 1912, A.B. Princeton 1910.....	Chester, N. J.
GEORGE, ROLAND J., A.B. Allegheny 1911.....	Saegertown, Pa.
GIBBS, WILLIAM FRANCIS, A.M. 1912.....	Haverford, Pa.
GLUCK, EDWIN LAWRENCE, A.B. 1911.....	New York City
GREENBAUM, EDWARD SAMUEL, A.B. Williams 1910.....	New York City
GREENBAUM, MILTON, B.S. 1911.....	New York City
GRILL, ABRAHAM MAURICE, A.B. 1911.....	New York City
HABER, ISADOR, A.B. 1911, A.M. 1912.....	W. Hoboken, N. J.
HALL, SHERWOOD ESTABROOK, A.M. 1912.....	Brandon, Vt.
HARTIGAN, JOHN PATRICK, A.B. Brown 1910.....	Providence, R. I.
HEALY, CHARLES EDWARD, A.B. St. Francis Xavier 1910.....	New York City
HEBERMANN, HENRY F., A.B. St. Francis Xavier 1910.....	New York City
HOBART, CHAS. E., A.B. Beloit 1909.....	Roscoe, Ill.
HOLDEN, HARRY D., A.B. Amherst 1910.....	Mamaroneck, N. Y.
HUSER, THOMAS EVERETT, Ph.D. Hamline 1910.....	Cumberland, Wis.
JEFFERSON, CHARLES FREDERIC, A.B. Yale 1910.....	New York City
JERVEY, HUGER WILKINSON, A.M. Univ. of South 1900.....	Charleston, S. C.
KAHN, ALBERT FELIX, Ph.B. Lafayette 1910.....	Easton, Pa.
KIM, JOHN HOWARD, A.B. Amherst 1910.....	New York City
KELLOGG, WILLIAM RAYMOND, A.B. Amherst 1910.....	Katonah, N. Y.
KIENDL, THEODORE, JR., A.B. Columbia 1910.....	New York City
KING, LeROY, A.B. Harvard 1906.....	Newport, R. I.
KLUGESCHIED, RICHARD C., A.B. 1911.....	New York City
KNIGHT, FREDERICK SYLVESTER, A.B. Amherst 1910.....	New York City
KOENIG, LEO, A.B. 1911.....	New York City
KORN, SAMUEL SEYMOUR, A.B. 1911.....	New York City
LANGLAND, HARRY CLARENCE, A.B. Iowa 1911.....	Cambridge, Iowa
LEVINE, SAMUEL, A.M. 1912, A.B. Tulane 1911.....	Bonham, Texas
LEVY, LOUIS M., A.B. 1911.....	New York City
LLOYD, GARDNER PLEASANTS, A.B. Princeton 1910.....	Red Bank, N. J.
MARCUS, BERNARD KENT, A.B. 1911.....	New York City
MCADOO, FRANCIS H., A.B. Princeton 1910.....	New York City
MCCARTHY, WILSON.....	Raymond, Alberta, Canada
MCENTEGART, THOMAS EMMET, A.B. Manhattan 1910.....	New York City
MCMANUS, JAMES P., LL.B. N. Y. Univ. 1909.....	New York City
MCVICKER, HUGH BREWSTER, A.B. Michigan 1910.....	South Bend, Ind.
MEI, HUA CHUEN, B.S. 1911.....	New York City
MORRISON, STUART TEN BROECK, A.B. Amherst 1910.....	Red Hook, N. Y.
NOBLE, RANSOM, A.B. Harvard, Columbia 1910.....	New York City
PASCARELLA, FRANK, A.B. 1911.....	Emerson, N. J.
PERRY, THOMAS A., JR., B.S. Georgia 1907.....	Atlanta, Ga.
PETIT, GEORGE E., A.B. Yale 1911.....	New York City
PHILBRICK, FRANCIS S., B.S. Nebraska 1897, A.M. 1899, Ph.D. Harvard 1902....	Lincoln, Neb.
RAMSDALL, C. HOMER, A.B. 1910.....	New York City
RICHARDSON, WILLIAM EMANUEL, A.B. Princeton 1910.....	Bernville, Pa.
ROCHE, ERNEST SPENCER, A.B. 1911.....	Hempstead, N. Y.
ROTHWELL, VINCENT H.....	New York City
RUBINO, GABRIEL, A.B. 1911.....	New York City
RUCH, CLINTON JOSEPH, A.B. Lafayette 1908.....	Hellertown, Pa.
RYAN, JOHN POWER, A.B. Williams 1910.....	Troy, N. Y.



SCHMIDT, ARNOLD M., A.B. 1911.....	New York City
SEIPP, HENRY GEORGE, A.B. Cornell 1911.....	New York City
SEYMOUR, RAYMOND BRANCH, A.B. Dartmouth 1910.....	New York City
SHALEK, BERNARD A., B.S. C. C. N. Y. 1910.....	New York City
SHILAND, ANDREW ROMAIN, A.B. Williams 1910.....	New York City
SHIPMAN, BERTRAM FRANCIS.....	Red Oak, Ia.
SILVERMAN, ABRAHAM, A.B. Harvard 1910.....	New York City
SKERRITT, HARRY HUSE, Ph.B. Syracuse 1911.....	Syracuse, N. Y.
SMITH, HENRY MONTAGUE, A.B. Yale 1910.....	Morristown, N. J.
SMITH, LISLE ARCHIBALD, A.B. Oberlin 1909.....	Oberlin, Ohio
SMITH, RAY PATTON, Ph.B. Dickinson 1911.....	Carlisle, Pa.
SPRINGER, MORDECAI P., B.S. 1911.....	New York City
STRYKER, LAWRENCE CLARKSON, A.B. Princeton 1910.....	New York City
TAYLOR, MARTIN, B.L. Trinity 1908.....	Yonkers, N. Y.
THORNE, CLEVELAND, Ph.B. Yale 1907.....	Yonkers, N. Y.
TODD, RUSSELL WEBSTER, A.B. Princeton 1910.....	New York City
TONNELÉ, THEODORE MILLS, A.B. Princeton 1910.....	New York City
TOUART, ANTHONY JOSEPH, A.B. Spring Hill 1909.....	Mobile, Ala.
TOWNSEND, DALLAS SELWYN, A.B. 1910.....	Raeftord, N. C.
TURCK, CHARLES JOSEPH, A.M. 1912, A.B. Tulane 1911.....	New York City
TURK, ELKAN, A.B. Illinois 1910.....	Ritchfield, Ill.
VAN ALSTYNE, WILLIAM THOMAS, Ph.B. Yale 1910.....	New York City
VANDEBILT, ARTHUR T., A.B. Wesleyan 1910.....	Newark, N. J.
VAN FOSSAN, ERNEST HARVEY, A.B. Oberlin 1909.....	Lisbon, Ohio
VENESS, THADDEUS WELLINGTON, A.B. Oberlin 1906.....	Albert Lea, Minn.
WARD, WILBERT, JR., A.B. De Pauw 1910.....	South Bend, Ind.
WEBBER, WILLIAM THOMAS, A.B. 1911.....	New York City
WEEKS, RICHARD F., A.B. Princeton 1910.....	New York City
WENDT, EDMUND CHARLES, A.B. Harvard 1910.....	New York City
WHEELER, IRWIN, B.S. 1911.....	New Brunswick, N. J.
WILFERT, ERNEST WILLIAM, A.M. 1912, A.B. Cincinnati 1910.....	Cincinnati, Ohio
WILSON, HOWARD CHARLES, A.B. Cornell 1911.....	Danville, N. Y.
WOLFE, CHARLEMAGNE T., Ph.B. Bucknell 1910.....	Lewisburg, Pa.
WOLFF, HERBERT ALFRED, A.B. Dartmouth 1910.....	New York City
WOLFSON, GEORGE MORRIS, A.B. Cornell 1911.....	New York City
WOLLISON, IRA, A.B. C. C. N. Y. 1909.....	New York City
WOOLEY, FREDERICK HEARNE, A.B. Harvard 1910.....	New York City
WORTHINGTON, BOND VALANTINE THOMAS, A.B. Oxford 1910.....	New York City
ZIPP, CLARENCE STOLL, B.S. Trinity 1911.....	Hartford, Conn.
ZORN, FREDERICK, A.B. C. C. N. Y. 1910.....	New York City

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## SECOND YEAR—CLASS OF 1914

AHEARN, THOMAS JAMES, JR., A.B. 1912.....	New York City
AHEARN, WILLIAM DANIEL, A.B. 1912.....	New York City
ALLEY, RAYFERD W., A.B. Wash. & Lee 1910.....	Muskogee, Okla.
ANDERSON, FOREST MILTON, B.S. Ft. Worth 1911.....	Ft. Worth, Texas
ANGULO, CHARLES, A.B. Georgetown 1911.....	New York City
BAKER, CHARLES SILAS, A.M. 1912, A.B. Cornell 1911.....	Washington, D. C.
BALL, EVERETT L., B.Litt. California 1911.....	Porterville, Cal.
BANKS, JAMES LENOX, JR., A.B. Yale 1911.....	New York City
BARNUM, RAY FOSTER, A.B. 1910.....	White Plains, N. Y.
BATTEY, LOUIS LECG., A.B. Sacred Heart 1910.....	Augusta, Ga.
BELL, JOSEPH LECONTE, A.B. Yale 1912.....	Aiken, S. C.
BERNSTEIN, BENJAMIN, A.B. 1912.....	New York City
BERNSTEIN, DAVID RAY, B.S. C. C. N. Y. ....	New York City

BLABER, JOSEPH THOMAS, A.B. 1911.....	New York City
BRENNER, ARTHUR BEARNS, A.B. 1912.....	New York City
BROOKS, GEORGE BRUCE, A.B. Williams 1911.....	New Rochelle, N. Y.
BROWN, HARRY H., A.B. Georgetown 1911.....	New York City
BROWN, JOSEPH EVERINGHAM, A.B. William Jewell 1911.....	Kansas City, Mo.
BUDNER, HAROLD SYDNEY, A.B. C. C. N. Y. 1911.....	New York City
CALAHAN, HAROLD AUGUSTIN, A.B. 1912.....	New York City
CALHOUN, EARLE CLARK, LL.B. Mercer 1910, A.B. 1911.....	Eastman, Ga.
CALHOUN, ROY EMMETT, A.B. Mercer 1911.....	Eastman, Ga.
CAPLOW, SAMUEL NATHANIEL, B.S. 1911.....	New York City
CLARK, KENNETH FRANCIS, A.B. Dartmouth 1911.....	New York City
CLARK, WILLIAM EVANS, A.B. Amherst.....	New York City
CLINCH, WATT WILLIS, B.L. California 1911.....	Grass Valley, Cal.
CLYNE, HERBERT HOMER.....	New York City
COATES, ARTHUR PIERCE, A.B. Yale 1910.....	Upper Montclair, N. J.
COLCORD, ALAN HUSTED, A.B. Cornell 1912.....	New York City
CORWIN, HILARY EARL, B.S. Columbia 1906.....	Huntington, N. Y.
CURTIS, MONROE, A.B. Western Reserve 1911.....	Hastings, N. Y.
DE BEIXEDON, BENNETT, A.B. Yale 1912.....	New York City
DEFRIECE, F. W., A.B. Emery & Henry 1897.....	Meadow-view, Va.
DOWD, MERVYN RAPHAEL, A.B. California 1911.....	San Francisco, Cal.
DRAKE, WILBUR ARTHUR, A.B. Leland Stanford 1905.....	Plainfield, N. J.
DWIGHT, MAITLAND.....	Convent, N. J.
ELDER, ROBERT DULL, A.B. Princeton 1911.....	Leadville, Colo.
FAAS, CHARLES THORNE, B.S. 1912.....	New York City
FALES, DeCoursey, A.B. Harvard 1911.....	New York City
FARNSWORTH, JAMES A., A.B. Cornell 1911.....	Muscataine, Iowa
RAY, MARTIN J., B.S. Fordham 1908.....	Yonkers, N. Y.
FEE, JAMES A., JR., A.B. Whitman 1910.....	Pendleton, Ore.
FEINSOD, ELIAS, B.S. 1912.....	New York City
FERREIRA, AVELIHO VICENTE, A.B. 1911.....	New York City
FOULK, THOMAS BOND, B.S. West Virginia 1908.....	Morgantown, West Va.
FROST, BENSON RALPH, A.B. Brown 1908.....	Rhinebeck, N. Y.
GEORGE, AUSTIN LEE, A.B. Washington-Jefferson 1909, A.M. 1910...	Saegertown, Pa.
GERSTEIN, SAMUEL RALPH, B.S. 1911.....	New York City
GOETZ, GEORGE GUSTAV, A.B. Cornell 1912.....	Milwaukee, Wis.
GOODHUE, FISHER, A.B. Yale 1911.....	New York City
GORE, ARTHUR DERWOOD, A.B. Wake Forest 1911.....	Clarendon, N. C.
GRAFF, JOSEPH, R., A.B. Dartmouth 1909.....	Peoria, Ill.
HALL, BARTOW HARWOOD, A.B. Amherst 1910.....	Colorado Springs, Colo.
HALL, HENRY TWITCHELL, A.B. Williams 1911.....	E. Orange, N. J.
HAM, WILKIE CLAY.....	Hasty, Colo.
HARRIS, THOMAS ADDIS EMMET, A.B. Harvard 1911.....	New York City
HEALY, HAROLD HARRIS, A.B. Colorado 1911.....	Denver, Colo.
HERRLICH, WILLIAM, B.S. 1912.....	New York City
HILL, DUDLEIGH, A.B. 1910.....	New York City
HILL, JOHN WARREN, A.B. 1911.....	New York City
HIRSCH, MORSE SABLE, A.B. C. C. N. Y. 1911.....	New York City
HOYT, C. C., A.B. Marietta 1911.....	Marietta, Ohio
ISELL, IRVIN CASTLE, A.B. 1912.....	New York City
JACKSON, SAMUEL L., A.B. 1912.....	New York City
JACQUES, HENRI C.....	New York City
JEWELL, RALPH HERBERT, A.B. Yale 1911.....	Washington, D. C.
JEWELL, THOMAS BRONSON, A.B. Oberlin 1910.....	Washington, D. C.
JONES, ROBERT HALLEY, A.B. Texas 1911.....	Austin, Tex.

KAUFMAN, JOE ARJE, A.B. Cornell 1912.....	Great Falls, Mont.
KEEN, E. LeROY, Ph.B. Dickinson 1907.....	Wiconisco, Pa.
KENT, STEPHEN GIRARD, A.B. Williams 1911.....	Summit, N. J.
KENYON, RAY H.....	Minneapolis, Minn.
KENYON, THEODORE STANWOOD, A.B. Harvard 1911.....	New York City
KEOUGH, AUSTIN C., A.B. Dartmouth 1911.....	New York City
KOHLER, FREDERIC DUDLEY, A.B. Yale 1912.....	New York City
KOLINSKY, PETE CHARLES, A.B. Wisconsin 1912.....	Racine, Wis.
KUNZMAN, IRVING, B.S. 1912.....	Plainfield, N. J.
LEVINSON, SAMUEL JOSHUA, A.B. 1911.....	New York City
LEWIS, READ, A.B. Wisconsin 1909.....	New York City
LINDLEY, ADELBERT H., Ph.B. Alma 1911.....	Lupton, Mich.
LIVINGSTON, ROBERT R., Litt.B. Princeton 1910.....	Tivoli-on-Hudson, N. Y.
LUPTON, RUSSELL E., A.B. Yale 1912.....	Mattituck, N. Y.
MCGEEVER, JOHN ANDREWS, LL.B. Transylvania 1911.....	New York City
McKINNON, JOHN, B.S. Iowa Wesleyan 1907.....	Mt. Pleasant, Iowa
MACKEY, RICHARD JOSEPH, A.B. 1912.....	Jersey City, N. J.
MANICE, WILLIAM DeFOREST, A.B. Yale 1911.....	New York City
MARCHMONT, JOHN HAMILTON, A.B. 1910.....	Alma, Mich.
MARKS, ALEXANDER DRUMMOND, A.B. Yale 1911.....	New York City
MARTIN, ANDREW PENN, A.B. Ohio Wesleyan 1910.....	Wilmington, Ohio
MATTESON, LEONARD JEROME, A.M. 1912, A.B. Colgate 1911.....	Mt. Vernon, N. Y.
MERRYMAN, ALFRED PALMER, A.B. C. C. N. Y. 1911.....	New York City
MEYER, CHARLES HARRISON, A.B. 1912.....	New York City
MONOSMITH, GEORGE W.....	Wellington, O.
MORRILL, RUSSELL DeWITT, A.B. Michigan 1912.....	Big Rapids, Mich.
MORRISON, ROBERT H., A.B. Wabash 1911.....	Frankfort, Ind.
MULLEN, JOHN A., B.S. 1911.....	New York City
MULQUEEN, JOSEPH FRANCIS, JR., A.B. St. Francis Xavier 1910.....	New York City
NORDLINGER, HENRY HAROLD, A.B. 1912.....	New York City
O'BRIEN, D. CHARLES, A.B. Syracuse 1912.....	Baldinsville, N. Y.
OSBORN, KENNETH DEAN.....	LaPorte, Ind.
PALLEY, DAVID MAURICE.....	New York City
PALMER, ELWELL, Ph.B. Yale 1910.....	New York City
PATON, THOMAS B., JR., A.B. 1911.....	New York City
PHILLIPS, RICHARD HENRY, A.B. Yale 1912.....	Hartford, Conn.
PITTS, ALFRED LEIGH, B.S. 1912.....	New York City
PORTER, FITZ JOHN, A.B. 1912.....	New York City
POWELL, REICHARD ROY BELDEN, A.M. 1912, A.B. Rochester 1911.....	Rochester, N. Y.
PYNE, WARNER CHARLES, B.S. 1912.....	New York City
RAPP, STEPHEN KAUFMAN, A.B. C. C. N. Y. 1911.....	New York City
REICH, LORENZ, JR., A.B. C. C. N. Y. 1911.....	New York City
REMSEN, WILLIAM, A.B. 1911.....	New York City
REYNOLDS, HENRY, Ph.B. North Carolina 1900.....	Wilkesboro, N. C.
RIEGEL, GUY HUGHES, A.B. 1912.....	Lebanon, Pa.
ROTHENBERG, BENJAMIN, A.B. 1912.....	New York City
RYDER, ROBERT CHILD, A.B. Middlebury 1910.....	Vergennes, Vt.
SAMUELS, SUMNER LAWRENCE, A.B. C. C. N. Y. 1911.....	New York City
SAXE, WILLIAM VOGEL, A.B. 1912.....	New York City
SHEEL, GEORGE GOTTAN, A.B. Harvard 1909.....	New York City
SCHNACKE, FRANCIS DEAN, A.B. Kansas 1911, A.M. 1912.....	Topeka, Kan.
SELIG, SOLOMON, B.S. 1912.....	New York City
SHANDS, JOSEPH WALTER, A.B. Florida 1911.....	Gainesville, Fla.
SHREWSBURY, WILLIAM ERNEST, A.B. 1912.....	New York City
SEMON, WILLIAM STANLEY.....	Wilkinsburg, Pa.

SILVERSTEIN, ROBERT PHILLIP, A.B. Cornell 1912.....	Scranton, Pa.
SKIDMORE, LEMUEL, JR., A.B. Princeton 1911.....	Summit, N. J.
SMITH, AUGUSTUS C., A.B. 1912.....	Babylon, N. Y.
SNYDER, DAVID EARL, A.B. Cornell 1912.....	Herkimer, N. Y.
STAFFENSON, KEARNEY K., A.M. 1912, A.B. Utah 1911.....	New York City
STEINEMANN, ROBERT.....	New York City
SWAIN, DAVID WHITON, A.B. Dartmouth 1911.....	New York City
SWAN, CLINTON COMBES, A.B. Williams 1911.....	New York City
THOMSON, CHAS. E.....	Scranton, Pa.
THURLOW, LEWIS KELMOND, JR., A.B. 1912.....	New York City
TRIMBLE, RUFUS JAMES, A.B. 1912.....	New York City
TROUTMAN, ROBERT B., A.B. Georgia 1911.....	Atlanta, Ga.
TWOMBLY, EDWARD BANCROFT, A.B. Yale 1912.....	Summit, N. J.
UNGERER, HEIBY WETLING, A.B. Hobart 1911.....	Lyons, N. Y.
VAN VOAST, RUFUS A., Ph.B. Yale 1900, M.D. Harvard 1906.....	Cincinnati, O.
VOORHEES, TRACY S., A.B. Rutgers 1911.....	New Brunswick, N. J.
VREDENBURGH, EUGENE H., A.B. Princeton 1911.....	New York City
WADE, CARL WILTON, A.B. Harvard 1910.....	Kenton, Tenn.
WARD, GEORGE SNYDER, A.B. Illinois 1910.....	Benton, Ill.
WATSON, THOMAS HENDERSON, JR., A.B. 1912.....	New York City
VON WEDELL, HANS ADAM.....	New York City
WEIS, WALTER MOSES, A.B. 1911, A.M. 1912.....	New York City
WEST, JOHNSON EDWIN.....	Bellefontaine, Ohio
WHITE, CLARENCE RALPH, Ph.B. Vermont 1911.....	Burlington, Vt.
WHITMORE, J. R.....	Los Angeles, Cal.
WILLARD, CHARLES BUNNELL, A.B. Hamilton 1911.....	New York City
WILLINGHAM, JAMES C., A.B. Missouri Valley 1909.....	New York City
WILLO, JOHN ALOYSIUS, A.B. Georgetown 1912.....	Youngstown, Ohio
WINANT, CLINTON D., Lit.B. Princeton 1911.....	New York City
WOLFERS, FRED ROBERT, A.B. Missouri 1910.....	Pickering, Mo.
YATES, JAMES ATWOOD.....	Jacksonville, Fla.
YOUNG, JOHN WALLACE, A.B. Yale 1912.....	Montrose, Pa.
YOUNG, RICHARD WHITEHEAD, JR., A.B. Utah 1909.....	Salt Lake City, Utah
YOUNGER, DAVID HOWARD, B.S. 1912.....	Newark, N. J.

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## FIRST YEAR—CLASS OF 1915

ABRAMOVITZ, WILLIAM HYMAN, A.B. Washington & Lee 1912.....	Tampa, Fla.
ADAMS, HENRY CLINTON, Litt.B. Princeton 1912.....	Bedford Hills, N. Y.
AMORY, COPLEY, JR., A.B. Harvard 1912.....	Walpole, N. H.
ATKINSON, WALTER EDGAR, A.B. N. Y. Univ. 1911.....	New York City
BAAR, EMIL N. (Senior Columbia College).....	New York City
BAILEY, CHARLES ROBERT, A.B. Washington & Lee 1912.....	Bakersville, N. C.
BAINTON, WILLIAM LEWIS, B.S. 1912.....	New York City
BARKER, FRANK PENDLETON, A.B. North Carolina 1912.....	Pembroke, Ky.
BAXTER, HAROLD, M.E. 1906.....	Phoenix, Ariz.
BEER, THOMAS, A.B. Yale 1911.....	Yonkers, N. Y.
BELL, JAMES C., JR., A.B. Princeton 1912.....	New York City
BERK, WILLIAM LEONARD (Senior Columbia College).....	New York City
BIRNBAUM, ALEXANDER MORTIMER, A.B. C. C. N. Y. 1912.....	New York City
BLYTHE, WILLIAM HORACE, A.B. Miami 1912.....	Springfield, Mo.
BOBBÉ, SIDNEY S. (Senior Columbia College).....	New York City
BOLES, CHARLES EDWARD, A.B. Bethel 1906.....	Glasgow, Ky.
BRAUS, LEON (Senior Columbia College).....	New York City
BROCK, ARNOLD J. (Senior Columbia College).....	New York City



BRODERICK, EDWARD VINCENT, A.B. 1912.....	Yonkers, N. Y.
BROWN, FRANK J. (Senior Columbia College).....	New York City
BROWN, WILLIAM EUSTIS, Ph.B. Lafayette 1909.....	Boonton, N. J.
BRUBACK, THEODORE McLANE, M.E. Cornell 1912.....	Erie, Pa.
BUNGARD, MAURICE ZUVELA, B.S. C. C. N. Y. 1912.....	New York City
BUNZL, JULIUS VICTOR, A.B. 1912.....	New York City
BURTON, L. W. M., A.B. William Jewell 1909.....	Strand, Okla.
CAMPBELL, WILLIAM MONTGOMERY (Senior Columbia College).....	New York City
CARROLL, JOSEPH WILLIAM.....	New York City
CLARK, BYRON, JR., A.B. Washington & Jefferson 1912.....	New York City
CLARK, FRANCIS JOHN, A.B. St. Francis Xavier 1912.....	New York City
CLARK, RUSSELL ARTHUR, A.B. Oberlin 1912.....	New York City
CLARKE, ROBERT PARKER, A.B. Yale 1912.....	New York City
COGAN, WILLIAM JOSEPH, A.B. Georgetown 1912.....	Bayonne, N. J.
CONGER, FREDERIC, A.B. Williams 1912.....	New York City
CONNICK, LOUIS, A.B. Yale 1912.....	New York City
COONEY, EDWIN WRIGHT, A.B. New York University 1911.....	Larchmont, N. Y.
CROUSE, D. STEWE.....	Lincolnton, N. C.
CRUSE, BERNARD AUGUSTINE, A.B. Seton Hall 1912.....	So. Orange, N. J.
CULMAN, FREDERICK, A.B. 1912.....	New York City
CURRAN, CYRIL JOSEPH, A.B. Notre Dame 1912.....	Rochester, N. Y.
CURRY, VINCENT EDWARD (Senior Columbia College)....	Hyde Park-on-Hudson, N. Y.
DALLALEY, CHARLES A.....	New York City
DENNIS, FREDERIC J., A.B. Harvard 1912.....	New York City
DOLBEARE, FREDERIC RUSSELL, A.B. Yale 1907.....	Hartford, Conn.
DOWNES, ELLIOTT HAWKRIE (Senior Columbia College).....	New York City
DRACHMAN, EDGAR JACOB, A.B. C. C. N. Y. 1912.....	New York City
DRISCOLL, FRANCIS LAWRENCE EDWARD, Ph.B. Yale 1912.....	New York City
EVANS, CHARLES S., A.B. Livingstone 1904.....	Yonkers, N. Y.
FELKER, PAUL McDANIEL, A.B. Georgia 1912.....	Monroe, Ga.
FIKE, TRACY R. V. (Senior Columbia College).....	New York City
FIMMEN, EDWARD AUGUSTUS, Ph.B. Iowa Wesleyan 1911.....	Burlington, Iowa
FLECK, HARRY DREGAN.....	New York City
FOWLER, DUDLEY FREDERICK (Senior Columbia College).....	New York City
FRANK, VICTOR (Senior Columbia College).....	Chicago, Ill.
FULLER, ERNEST MICHAEL, A.B. Brown 1907.....	Freeport, N. Y.
GIDEN, ABRAHAM ARTHUR, B.S. Columbia 1912.....	New York City
GINNEL, WILLIAM SHREVE, JR. (Senior Columbia College).....	New York City
GIVEN, PHILIP L., A.B. Wesleyan 1909, A.M. Harvard 1911.....	Newark, N. J.
GOEDIN, GUELIE BENJAMIN, A.B. Georgia 1912.....	Atlanta, Ga.
GRADY, JAMES THOMAS.....	New York City
GUMBART, WILLIAM BARNUM.....	Norwalk, Conn.
HAIBLUM, LEO NELSON, A.B. C. C. N. Y. 1912.....	Stapleton, N. Y.
HANN, CHARLES, JR., A.B. Harvard 1911.....	Brookline, Mass.
HARRAH, EDWARD, A.B. Yale 1911.....	New York City
HERRICK, HAROLD EDWARD, A.B. Yale 1912.....	Lawrence, N. Y.
HARRIS, RALPH SCOTT (Senior Columbia College).....	Birmingham, Ala.
HENDERSON, HARRY BUCK (Senior Columbia College).....	Cheyenne, Wyoming
HEYN, OTTO PETER, JR., A.B. Princeton 1912.....	New York City
HOBBS, RICHARD J. M., A.B. Guilford 1909.....	Guilford College, N. C.
HOISHLT, ARNE, B.L. California 1912.....	Stockton, Cal.
HOPKINS, PRINCE C., A.M. 1910, Ph.B. Yale 1906.....	Santa Barbara, Cal.
HYMAN, MAXWELL (Senior Columbia College).....	New York City
JACOBS, ELIAS REX, A.B. C. C. N. Y. 1912.....	New York City
JACOBSON, JOSEPH ERNEST, B.S. Florida 1912.....	Jacksonville, Fla.



JEROME, WILLIAM TRAVERS, JR., A.B. Yale 1912.....	New York City
JOHNSON, NORMAN REICHARD (Senior Columbia College).....	New York City
JONES, JOHN KENNETH, Ph.B. Denison 1911.....	Granville, Ohio
JORDAN, DAVID L., A.B. Fordham 1904.....	Youkers, N. Y.
JOSEPH, EDMUND.....	New York City
KANEKO, GIN JIRO.....	New York City
KATZ, JEROME F., A.B. C. C. N. Y. 1911.....	New York City
KELLEY, R. J., B.S. Colgate 1912.....	Hudson Falls, N. Y.
KENT, WILLIAM RIDDLE, A.B. Illinois 1912.....	Passaic, N. J.
KNAUTH, ARNOLD WHITMAN, A.B. Harvard 1912.....	New York City
LANDIS, WILLIAM B., Ph.B. Dickinson 1911.....	Rock Glen, Pa.
LEFKOVICS, CARL E. ERPF, A.B. C. C. N. Y. 1912.....	New York City
LEVY, MORRIS, A.B. C. C. N. Y. 1911.....	New York City
LEWIS, CLARENCE LESLIE (Senior Columbia College).....	New York City
LILLEY, JOHN LEAVENS, Ph.B. Yale 1909.....	New York City
LITTLE, JOHN THEODORE (Senior Columbia College).....	New York City
LOGAN, WALTER (Senior Columbia College).....	New York City
LOUIS, SIDNEY MAXWELL (Senior Columbia College).....	New York City
LYON, CLIFFORD STANLEY, A.B. Dartmouth 1910.....	Holyoke, Mass.
MCCORMICK, JOHN KERNAU (Senior Columbia College).....	New York City
MCKEE, THOMAS CLYDE, A.B. Oklahoma Methodist 1912.....	Center, Texas
McMILLAN, ROBERT LEROY, A.B. Wake Forest 1909, A.M. 1910.....	Maxton, N. C.
McNAMARA, JOHN GAFFNEY, A.B. Georgetown 1912.....	Norwich, Conn.
MACADAM, JOHN KING, A.B. Fordham 1912.....	New York City
MACDUFF, DOUGLAS, A.B. Michigan 1903, A.M. Wisconsin 1907.....	Peekskill, N. Y.
MARTIN, FRANCIS LINTON, Ph.B. Yale 1912.....	Chattanooga, Tenn.
MAURICE, STEWART (Senior Columbia College).....	Mamaroneck, N. Y.
MEISEL, CHARLES J. W., A.B. 1911.....	New York City
MERRITT, GEORGE H., A.B. Oregon 1906.....	Jacksonville, Oregon
MILHEISER, CLARENCE FREDERICK (Senior Columbia College).....	Galveston, Texas
MILLER, SPENCER, A.B. Amherst 1912.....	So. Orange, N. J.
MINOR, JAMES HENRY.....	Plainville, Conn.
MINSKY, HERBERT K., A.B. 1912.....	New York City
MULWITZ, JACOB (Senior Columbia College).....	Port Chester, N. Y.
NATHANSEN, SAMSON, A.B. Brown 1912.....	Central Falls, R. I.
O'DONAHOE, GERALD G., A.B. Sacred Heart 1911, B.S. Fordham 1912..	New York City
ORR, WALTER STUART, B.S. Amherst 1912.....	Orr's Mills, N. Y.
PEARCE, CHARLES C., A.B. Wisconsin 1909.....	Dodgeville, Wis.
PEIKER, HARRY C.....	Paola, Kan.
PERLOWITZ, CHARLES (Senior Columbia College).....	New York City
PROPPER, KARL (Senior Columbia College).....	New York City
RANDOLPH, JOHN ANDERSON FITZ (Senior Columbia College).....	New York City
RAY, LUMAN RUSSELL, A.B. Cornell 1912.....	New York City
READ, JOEL LEWIS, B.S. Ohio Wesleyan 1912.....	Columbus, Ohio
REED, LYNN POWERS (Senior Columbia College).....	New York City
RIVES, FRANCIS BAYARD, A.B. Yale 1911.....	New York City
ROSENBLATT, WILLIAM (Senior Columbia College).....	New York City
ROSENTHAL, WILLIAM JOSEPH (Senior Columbia College).....	New York City
ROSS, VIVIAN CLINTON, A.B. Rutgers 1912.....	New Brunswick, N. J.
ROTHBERG, I. HARVEY, A.B. Amherst 1912.....	Plainfield, N. J.
ROTHSCHILD, JAY LEO, A.B. 1912.....	New York City
ROTHSTEIN, HERMAN ZIGMUND.....	New York City
RUBEL, FRANK RAYMOND, B.S. Mississippi 1912.....	Corinth, Miss.
RUBLE, JESSE J., A.B. Wisconsin 1911.....	Platteville, Wis.

RUSHMORE, EVERETT, Litt.B. Princeton 1912.....	Mamaroneck, N. Y.
RUSSELL, JAMES GOODWIN, A.B. Holy Cross 1912.....	New York City
SABBATINO, PETER LEONARD FRANCIS, A.B. C. C. N. Y. 1912.....	New York City
SAMUELS, ISADORE, A.B. Park 1912.....	Parkville, Mo.
SCANDRETT, RICHARD BROWN, JR., A.B. Amherst 1911.....	Pittsburgh, Pa.
SCHARMANN, AUGUST CHARLES, A.B. Yale 1912.....	New York City
SCHECHTER, FRANK ISAAC.....	New York City
SCHEHR, LAZAR, A.B. Princeton 1910, A.M. 1912.....	New York City
SCHUEER, SIMON HAAS (Senior Columbia College).....	New York City
SCHIEL, WALTER EDWARD.....	New York City
SCHLESINGER, LAURENCE.....	New York City
SCHWARTZ, JESSE, B.S. C. C. N. Y. 1912.....	New York City
SCHWED, IRVING, Ph.B. Lafayette 1912.....	Somerville, N. J.
SCRATCHLEY, GEORGE KENNER, A.B. 1912.....	Salina, Kan.
SHIENTAG, JACOB, A.B. C. C. N. Y. 1912.....	New York City
SHOLES, SOL, B.S. C. C. N. Y. 1912.....	New York City
SINGER, ANTON (Senior Columbia College).....	West Hoboken, N. J.
SLATER, ALEXANDER (Senior Columbia College).....	New York City
SMITH, N. CLARENCE, A.B. Emery & Henry 1912.....	Pocahontas, Va.
SMITH, THEODORE EUGENE, A.B. Harvard 1912.....	Akron, Ohio
SMITH, WESLEY L., B.S. 1912.....	Baldwin, N. Y.
STEARNS, GEORGE RAYNOLDS, JR. (Senior Columbia College).....	Buffalo, N. Y.
STECKLER, EDWARD LOUIS (Senior Columbia College).....	New York City
STEIN, SAMUEL DAVID, A.B. N. Y. Univ. 1912.....	Bensonhurst, N. Y.
STEINHARDT, LAURENCE A. (Senior Columbia College).....	New York City
STRADFORD, CORNELIUS FRANCIS, A.B. Oberlin 1912.....	Tulsa, Okla.
STRAUSS, IRWIN DERNHAM (Senior Columbia College).....	Holyoke, Mass.
SWORDS, ALBERT TWOMBLY (Senior Columbia College).....	New York City
TANNENBAUM, FERDINAND, A.B. Wabash 1912.....	Crawfordsville, Ind.
THIESING, THEODORE H.....	New York City
TISHMAN, LOUIS (Senior Columbia College).....	New York City
TOMLINSON, DANIEL G., A.B. Yale 1912.....	New York City
TURNER, CYRUS CALHOUN, JR., A.B. Yale 1911.....	New York City
UTERNMYER, EUGENE MAURICE (Senior Columbia College).....	New York City
VAUGHAN, JAMES ANDREW, A.B. Elon 1912.....	Franklin, Va.
WACK, WILLIAM HERMAN (Senior Columbia College).....	Mamaroneck, N. Y.
WARD, JOSEPH P., A.B. C. C. N. Y. 1912.....	New York City
WEATHERS, BRANTLEY A., JR., A.B. Amherst 1911.....	Ocala, Fla.
WEINER, STANLEY FELIX (Senior Columbia College).....	New York City
WELLINGTON, HERBERT GALBRAITH (Senior Columbia College).....	Ft. Worth, Texas
WHITLEY, HOWARD STERLING, M.E. Stevens 1912.....	Leonia, N. J.
WHITTINGHAM, EDWARD RENWICK, Litt.B. Princeton 1912.....	Millburn, N. J.
WIECHMANN, WALTER GERARD, A.B. Harvard 1912.....	New York City
WILLIAMS, THEODORE DEMPSTER, A.B. Yale 1912.....	New York City
WILSON, PAUL, A.B. Wabash 1911.....	Glen Ridge, N. J.
WILSON, RICHARD BARTLEY, Ph.B. Brown 1912.....	New York City
WOLINSKY, PHILIP, A.B. C. C. N. Y. 1912.....	New York City
WOLK, ABRAHAM (Senior Columbia College).....	Pittsburgh, Pa.
WOODHOUSE, CHARLES DOUGLAS, A.B. Williams 1910.....	Burlington, Vt.

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## NON-MATRICULATED STUDENTS

ALBRIGHT, CHARLES DORWART, LL.B. Cornell 1912.....	Wichita, Kan.
ARNOLD, EARLE BERNON, A.B. Brown 1911.....	N. Scituate, R. I.

AYZON, SATURNINO OCAMPO.....	Philippine Is.
BALES, HARRY OWEN, A.B. Lincoln 1911.....	New Market, Tenn.
BARRIOS Y VSATORRES, MANUEL RAOUL.....	New York City
BERTRAN, WIFREDO, A.B. Barcelona 1909.....	Humacao, P. R.
BRIGHTFIELD, LLOYD OSCAR, LL.B. Washington 1912.....	St. Louis, Mo.
BROCK, RAYMOND ELLIOTT.....	New York City
BRONSTON, HARRY EDGAR.....	New York City
COHEN, REUBEN SOLOMON.....	New York City
EATON, CHARLES W.....	Williamson, N. Y.
GAIMO, ROSARIO.....	Corona, N. Y.
HEFLIN, JOHN W.....	Hinton, W. Va.
HEGEMAN, ADRIAN, LL.M. St. Lawrence 1912.....	New York City
VON HELMOLT, CARL.....	New York City
INGRAM, DONALD MCCHESENEY, A.B. Texas 1911.....	Ft. Worth, Texas
JONES, OVID WINFIELD, A.B. Guilford 1908, A.M. North Carolina 1909.....	Winston-Salem, N. C.
LAVERY, PAUL.....	Lavery, Pa.
LIBERMAN, JOEL B., LL.B. N. Y. Univ. 1901, B.S. C. C. N. Y. 1904....	New York City
LYONS, THOMAS BARTON, A.B. Virginia 1910.....	Charlottesville, Va.
MABY, ADELBERT CONWAY.....	Kittey, Maine
MANSBACH, IRVING E.....	New York City
MONTORO, JOSE E., LL.M. Havana 1911.....	New York City
MOORE, HARRY B.....	Greenport, N. Y.
NICHOLS, SPENCER VAN BOKKELEN.....	Wilmington, N. C.
O'BRIEN, MORGAN J. JR., A.B. Yale.....	New York City
PEEPLES, THORNWELL K.....	Savannah, Ga.
SHATERIAN, WILLIAM SHADRACH.....	New York City
SMALL, W. L.....	Elizabeth City, N. C.
STOCKTON, RICHARD GORDON, A.B. North Carolina 1911.....	Winston-Salem, N. C.
TURNER, CAMPBELL.....	New York City
VALLANCE, WILLIAM ROY, A.B. Rochester 1910.....	Fowlerville, N. Y.
VOGLER, CHARLES ALEXANDER, A.B. North Carolina 1909....	Winston-Salem, N. C.
WARSHAWSKY, PHILIP JEROME.....	Newark, N. J.
ZOLLICOFFER JERE PERRY, A.B. North Carolina 1912.....	Henderson, N. C.

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## SUMMARY

Third Year—Class of 1913.....	136
Second Year—Class of 1914.....	157
First Year—Class of 1915.....	131
Non-matriculated students.....	35
Seniors from Columbia College.....	45
Total.....	504

## SCHOOL OF MEDICINE

### COLLEGE OF PHYSICIANS AND SURGEONS

#### The Faculty

President BUTLER

Dean LAMBERT

Professors BLAKE, BREWER, <sup>1</sup>BURTON-OPITZ, CRAGIN, EVANS, GIES (*Secretary*), HISS, HOLT, HUNTINGTON, JAMES, JANEWAY, LAMBERT (A.V.S), LEE, LONGCOPE, MACCALLUM, PAINTER, SCHULTE, STARR, WOOD.

#### Standing Committees

ON ADMINISTRATION: The Dean (Chairman), Professors CRAGIN, BLAKE, JANEWAY and MACCALLUM

ON ADMISSIONS: The Dean (Chairman), Professors WOOD and LEE

ON SCHOLARSHIPS: The Dean (Chairman), Professors HISS and SCHULTE

ON STUDENTS' LIBRARY: Professors HUNTINGTON (Chairman), BREWER, and EVANS

Delegates to the University Council, see page 3.

#### Emeritus Professors

(See page 5)

### HISTORICAL STATEMENT

King's College—the original foundation of Columbia University—organized a Medical Faculty in 1767 and was the first institution in the North American Colonies to confer the degree of Doctor of Medicine in course. The first individuals to graduate in medicine from the College were Robert Tucker and Samuel Kissam, who received the degree of Bachelor of Medicine in May, 1769, and that of Doctor of Medicine in May, 1770, and May, 1771, respectively. Instruction in medicine was given from this time on until the work of the College was broken up by the War of the Revolution. In 1784 an act was passed making Columbia College in the City of New York the successor of King's College, and instruction was resumed in the academic department. Eight years later the Medical Faculty was re-established, and was continued until 1814, when the Medical Faculty of Columbia College was merged in the College

<sup>1</sup> Absent on leave first half-year.



of Physicians and Surgeons, which had received an independent charter in 1807. In 1860, by agreement between the Trustees of the two institutions, the College of Physicians and Surgeons became the medical department of Columbia College, and from that time on the diplomas of the graduates were signed by the President of Columbia College as well as by the President of the College of Physicians and Surgeons. The connection was only a nominal one, however, until 1891, when the College was definitely merged in the University.

Since 1769 the degree of Doctor of Medicine has been conferred by Columbia University on 7685 men, including many of the most eminent practitioners in the United States.

### BUILDINGS, GROUNDS, AND EQUIPMENT

The College of Physicians and Surgeons was first situated at 18 Robinson Street, from 1807 to 1809. From 1809 to 1813 it was at 12 Magazine Street; from 1813 to 1837 at 3 Barclay Street; from 1837 to 1856 at 67 Crosby Street; and from 1856 to 1887 at 101 East Twenty-third Street. It now occupies a group of buildings given by the late William H. Vanderbilt, his sons Cornelius, William K., Frederick W., and George W. Vanderbilt, and by William D. Sloane, which stands upon thirty contiguous lots of land, bounded on the south, west, and north by Fifty-ninth Street, Amsterdam Avenue, and Sixtieth Street, respectively, and lying immediately opposite to the Roosevelt Hospital.

#### The Main Building

The College Building proper has been designed to facilitate the combination of theoretical instruction with laboratory work, which is essential to a modern scientific training. In this building, which has a floor space of 100,000 square feet, are the lecture halls, the recitation rooms, and the different laboratories, under the supervision of their respective professors all thoroughly equipped for the routine work of the regular classes and for the special original and research work of the advanced students, instructors, and professors of the several departments.

In this building are the administrative offices, the laboratories of Physiology, Anatomy, General and Physiological Chemistry, Surgery, Pharmacology and Pharmaceutics, Pathology and Clinical Pathology, the Morphological Museums and Laboratory, a dissecting room accommodating 400 students, and two large amphitheatres.

For a more detailed account of the equipment of each department, see the departmental statements.

#### Alliance with the Presbyterian Hospital

The alliance brought about by the mutual action of the two boards of trustees between the College of Physicians and Surgeons and the Presby-



terian Hospital will permit the scientific and clinical direction by the University of the medical, surgical, and pathological services of the hospital. A clinical service in medicine and in surgery has been organized in the hospital and placed in the charge of the Professors of Medicine and of Surgery, respectively. These services will contain about fifty beds each and will form an admirable beginning of a ward hospital service for the Departments of Medicine and of Surgery.

The Presbyterian Hospital contemplates the building of a new plant in which the present arrangements will be far surpassed, both in scientific facilities and in the number of beds, and the rebuilding of the Medical School is also under consideration.

The exceptional advantages of bringing about such an alliance between the College and the Presbyterian Hospital cannot be overstated. The system of sending fourth-year students to the various hospitals as clinical clerks will be strengthened and made more effective in consequence of this alliance. The students will be sent to the other hospitals, which have admitted clinical clerks, as heretofore, but the wards of the Presbyterian Hospital, in so far as they have been designated for university purposes, will offer a more thorough opportunity for the study of bed patients. The future development on these lines will place the College of Physicians and Surgeons in the enviable position where its clinical facilities will be commensurate with the excellent laboratory development which has taken place during the last ten years.

#### Vanderbilt Clinic

THE VANDERBILT CLINIC is a fully equipped dispensary for the sick poor. It also affords ample material for extended practical clinical instruction in the various departments of Medicine and Surgery, as the professors, with their clinical assistants, have the entire charge of its practice.

The building is so arranged that each department has a room for the practical instruction of students in small sections, in addition to the rooms devoted to the treatment of patients; besides, there is a large theatre for clinical lectures and a smaller lecture hall.

All modern appliances for the treatment of diseases have been introduced, so that students can learn thoroughly the use of all methods in each of the special departments of medicine.

During the year 1911, 39,335 patients were treated, making 153,303 visits to the Clinic.

For detailed information as to the clinical lectures held here, see the departmental statements in this volume, or the *Announcement of the College of Physicians and Surgeons*.

#### Sloane Hospital for Women

THE SLOANE HOSPITAL FOR WOMEN is under the exclusive di-

rection of the Professor of Obstetrics in the College of Physicians and Surgeons, the Instructor in Obstetrics being the Resident Physician. The wards of the Hospital furnish one hundred and twenty-two obstetrical beds and twenty-eight gynecological beds. In addition there are forty private-room beds and ample accommodations for the house staff, students, and nurses.

The service of the hospital is under the exclusive direction of the Professor of Obstetrics and Gynecology in the College of Physicians and Surgeons, an Instructor in Obstetrics and an Instructor in Gynecology being Resident Officers. There are two large operating rooms, one for obstetrics and one for gynecology, each equipped with all modern appliances for dealing with these conditions, and here Professor Cragin holds weekly clinics throughout the year.

The number of deliveries during 1911 numbered 1869.

With the completion of the Gynecological Department of the Sloane Hospital, the operative material of the large gynecological service of the Vanderbilt Clinic is made available for teaching purposes, so that now students of the College of Physicians and Surgeons receive on the college grounds practical instruction, not only in normal and complicated obstetrics and the care of young babies, but in the treatment, operative and palliative, of all diseases of the female pelvic organs.

#### Clinics at the Hospitals

The College is strongly represented on the staffs of most of the general and special hospitals of New York. In them both required and optional practical instruction is given by clinical lectures, in the dispensaries and at the bedside, all of which are prominent features of the curriculum. These hospitals are as follows: Roosevelt, Bellevue, New York, Presbyterian, St. Luke's, French, German, Mt. Sinai, City, Lincoln, General Memorial, Hospital for the Ruptured and Crippled, St. Mary's Free Hospital for Children, Willard Parker, Scarlet Fever and Reception, New York Eye and Ear Infirmary, Foundling, the Babies' Hospital, New York Ophthalmic and Aural Institute, the Manhattan Eye, Ear, and Throat Hospital, and the Woman's Hospital. For a detailed statement, see the *Announcement of the College of Physicians and Surgeons*.

#### Lectures

According to the provisions of the Cartwright Trust there is biennially given, under the auspices of the Alumni Association, a course of lectures more especially addressed to graduates in medicine. This course was delivered in April, 1910, by Professor Adolf Magnus-Levy of the University of Berlin.

#### GENERAL PLAN OF INSTRUCTION

The prescribed period of study for the degree of Doctor of Medicine is

four years. The requirements for admission are given elsewhere, but too much stress cannot be laid upon the desirability of a student fulfilling the spirit as well as the mere letter of those requirements. Physics, general inorganic chemistry, and biology are now required for admission, and the student of medicine will grasp the advanced subjects forming the groundwork of the course the more easily and with the better understanding just in proportion to the breadth and completeness of his preliminary education. The attention of students is particularly called to the regulations of Columbia College (see page 190) which permit a student to obtain a thorough preliminary training and at the same time to complete the requirements for the degree of A.B. or B.S. and the degree of M.D. in six years.

In the arrangement of the different branches of the medical instruction a logical order of the main themes and a co-ordination in the work of each department have been sought after, enabling the student to concentrate his attention upon some one subject and to be so familiar with it that the allied subjects next to be taken up shall be readily understood. The salient features in the method of instruction are thorough laboratory training, frequent demonstrations, clinical teaching in the operating theatres and at the bedside as well as in the dispensaries, with recitations and didactic lectures to elucidate the many problems confronting the student.

Records of attendance and scholarship are kept, and before a student may advance with his class he must, besides passing a good examination in a subject, present certificates of satisfactory practical work.

In the first half of the first year the time of the student is devoted largely to anatomy. The instruction is carried on mainly by numerous demonstrations to sections and by long periods of uninterrupted work in the dissecting room. In this part of the year pharmacy laboratory work is begun, organic and physical chemistry is dealt with and taught by didactic lectures, recitations, and laboratory exercises, and histology is begun. In the second half of the first year the study of physiology is begun, for which the students have been prepared by courses in anatomy. Physiology is taught by didactic lectures, demonstrations, recitations, and practical work in the laboratory. Physiological chemistry is studied in the laboratory and by lectures, recitations, and demonstrations. Anatomy is continued and the course in histology and embryology is completed.

In the second year anatomy and physiology are completed. The lectures in materia medica and medicine are begun and lectures, recitations, and laboratory courses in pharmacology and bacteriology are attended. As preliminary to the third and fourth years, recitations from text-books are held in obstetrics, materia medica, and surgery. For the second half of the second year the students are assigned to the laboratory for work in pathology and pathological anatomy, and are prepared for the study of medicine by an elementary clinic, and by instruction in the methods of physical diagnosis.

During the third year recitations in medicine and surgery are continued and those in gynecology, diseases of children, and therapeutics

are begun. There are didactic as well as clinical lectures in medicine, surgery, pharmacology and therapeutics, obstetrics, gynecology, neurology, genito-urinary diseases, laryngology, otology, ophthalmology, dermatology, orthopedic surgery, and diseases of children. During the year the work in pathological anatomy and clinical pathology is completed. The class is divided into small sections for instruction in physical and medical diagnosis, and in the special branches of medicine and surgery at the various dispensaries and hospitals.

The student in the fourth year spends most of his time in the hospitals and dispensaries of the city. Consequently, although a few general and clinical lectures are still given, the work is almost entirely practical and bedside instruction. Divided into small groups, the students continue to come into personal contact with patients, under the supervision of the instructor. In this way they have the opportunity to become familiar with the history of a case, to make a complete physical examination, to form a diagnosis, to give a prognosis, to advise treatment, and to watch progress.

In the course in surgery the witnessing of numerous major and minor operations is supplemented by an operative course in which the student himself performs on the cadaver many of the more common operations. For an obstetrical service, the unsurpassed facilities of the Sloane Maternity Hospital and out-patient obstetrical department in connection with the Nursery and Child's Hospital offer excellent opportunities. Here the student is required to live for five weeks and personally attend a certain number of cases of labor. The course in diseases of children includes bedside instruction in the wards of the Babies' Hospital, where exceptional advantages are enjoyed by the students for studying all forms of acute disease in infants and young children. The course is rounded out by personal instruction in the more special branches of medicine. In these branches the student is taught how to use many instruments of precision and to recognize and treat successfully many of the rarer forms of disease.

#### Clinical Clerkships in the Various Hospitals

Courses in the wards of St. Luke's, Bellevue, the Mt. Sinai, the Presbyterian, the New York, the German, and the Lincoln Hospitals have been opened by those institutions to fourth year medical students. These courses consist of work in the wards of the hospitals during which the students admitted will serve as clinical clerks both in medicine and surgery and become for the time being members of the regular staff. The courses are open for periods of two months' duration both during the vacation and during the regular term. The students who can successfully pass such tests as may be required by these hospitals and be entered upon these courses will be excused from college work while on duty except on Thursday of each week.

#### REQUIREMENTS FOR ADMISSION

All candidates must present (1) the medical-student certificate of the



Regents of the University of the State of New York, and (2) also *one* of the following qualifications:

- (a) The completion of not less than two full years of study, or the equivalent, in an approved college or scientific school, which course must have included instruction in the elements of physics, inorganic chemistry, and biology; or
- (b) In lieu of the above, candidates of mature years who meet the legal requirement may present such evidence as the Faculty may require, to prove exceptional fitness to undertake with advantage the study of medicine.

#### Advanced Standing

Admission may be granted to advanced standing at the beginning of any year. At least one full year of attendance is required of every candidate for the degree.

Candidates who have completed one or more years of study in an approved medical school, and apply for admission to advanced standing at the College of Physicians and Surgeons, will be admitted to the standing to which their record in that medical school would admit them, and be given credit for all courses satisfactorily completed therein, on presentation of proper certificates to the Committee on Admissions covering the same; provided that the candidates before beginning the study of medicine have fulfilled the requirements for admission demanded by the College of Physicians and Surgeons.

In applying the above regulation for admission to advanced standing, the Faculty have decided to discourage admission to the fourth-year class so far as undergraduate students from other colleges are concerned. The course in medical education divides itself logically into two parts, the first of which is scientific and consists of the first two years, and the second is clinical and consists of the last two years. It is found difficult to separate the work of the third and fourth years, and students who desire to obtain the advantages of the clinical opportunities offered in New York City (so far as they are represented by the College of Physicians and Surgeons) are recommended to transfer from their college of first study at the end of their second year in medicine, and to take both the third and fourth years at Columbia. It is essential that students offering themselves for admission should have all the work presented in the curriculum of the College of Physicians and Surgeons. This is especially true of the courses in general and microscopic pathology. It is impossible to organize the work of the third year so that a student may take at the same time the pathology courses offered by the College of Physicians and Surgeons in the second-year curriculum. Students who wish to enter the second year, and who have not had the work in physiological chemistry, may make up that deficiency by work in the Summer Session at Columbia, but up to the present time such a procedure is not possible so far as the pathology of the second year is concerned. Students who have finished the combined course



leading to a Bachelor's degree, of which the last two years have been taken in a regular medical school connected with their university, are eligible for admission, under this ruling, to the third year at the College of Physicians and Surgeons, provided they have taken all the courses of the first two years' curriculum. The fourth year at the College is so eminently clinical, and is carried on in hospitals at a distance from the college building, in the course given under the heading of clinical clerks, that the admission to the fourth year will be largely limited to students who have already secured the degree of Doctor of Medicine. It is believed that the course as given at the College will be found to be a valuable post-graduate year for many graduates, and the College believes that admission to the fourth year should be limited to such students.

#### Special Students

Students desiring to do special work at the College of Physicians and Surgeons may register at any time during the year as special students. Such applicants, however, cannot subsequently become candidates for graduation without full compliance with the terms of admission and graduation.

Special students will be required to present to the Committee on Admission before entrance evidence of (a) an adequate preliminary education, and (b) special fitness for the particular work they desire to pursue.

#### REQUIREMENTS FOR GRADUATION

Every candidate in the four-year course will be required before admission to the degree of M.D.:

1. To present satisfactory evidence, as required by law, of good moral character, and of having attained the age of twenty-one years.
2. To present evidence of having complied with the requirements for admission.
3. To have attained to satisfactory standing in the required studies of the four years of the curriculum. (See table, page 235.)
4. A candidate who shall have been admitted to advanced standing will be required to have spent not less than four academic years at the studies referred to in the clause next preceding; and to have complied successfully with the requirements for admission to advanced standing.

No two academic years which shall have begun during the same calendar year will be held to satisfy the requirements of the preceding clause.

#### SCHOLARSHIPS, FELLOWSHIPS, AND PRIZES

(See page 450)

#### EQUIPMENT AND COLLECTIONS

Detailed information as to the laboratories, collections, and other facilities for study will be found in the statements of the various departments of instruction, pages 56-169, and more fully in the *Announcement of the College of Physicians and Surgeons*.

# COURSE OF STUDY LEADING TO THE DEGREE OF M.D.

(A much more detailed summary will be found in the special *Announcement of the College of Physicians and Surgeons*)

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Chemistry (Physical and Organic) 51 Anatomy (including Histology and Embryology) 53, 54, 55-56, 57-58, 67-68, 69-70, 71-72 Physiology 106-107 Physiological Chemistry 106 Pharmacy 61 Surgery 94 <i>Examinations upon the work of the first year</i>	Anatomy 51-52, 59-60, 63-64, 65-66 Physiology 106-107 Pathology 52, 54 Bacteriology 51 Pharmacology, Materia Medica, and Therapeutics 59-60, 62, 63-64 Obstetrics 53-54 Practice of Medicine 51, 52, 54 Surgery 65-66 Gross Pathology 55-56 Pathological Anatomy 57-58 <i>Examinations upon the work of the second year</i>	Pharmacology, Materia Medica, and Therapeutics 55-56, 57-58 Practice of Medicine 55-56, 57-58, 59-60, 61-62, 63-64, 65-66 Neurology 51 Surgery 51-52, 53-54, 57-58, 59-60, 79-80, 81-82, 83-84, 85-86 Obstetrics 51 Gynecology 52, 53 Genito-Urinary Diseases 51-52, 53-54, 55 Ophthalmology 52, 53-54, 56 Otology 51 Diseases of Children 51, 52, 55-56, 57, 59-60 Clinical Pathology 52 Orthopedic Surgery 51-52 Dermatology 53-54 Laryngology 51-52, 53-54, 55-56 Pathological Anatomy 55-56, 57-58 <i>Examinations upon the work of the third year</i>	Pharmacology, Materia Medica, and Therapeutics 51, 53-54, 70, 71-72, 75 Practice of Medicine 67-68, 69-70, 71-72, 73-74, 75-76, 79-80, 81-82, 83-84, 85-86, 87-88 Neurology 51, 53-54, 55-56, 57, 59-60, 64 Surgery 51-52, 55-56, 59-60, 63-64, 69-70, 71-72, 75-76 Orthopedic Surgery 53-54, 55-56 Obstetrics 55-56, 57-58 Gynecology 55-56, 57-58, 59-60, 61-62, 65-66 Dermatology 51-52 Diseases of Children 51, 52, 53-54, 61-62 Laryngology 57-58 Otology 53-54, 55-56 Clinical Pathology 53-54 Hygiene and Preventive Medicine 52 <i>Examinations upon the work of the fourth year</i>

1 In all subjects which are not completed in a single year, the instruction offered to a given student is different each year. Consult the departmental statements (pp. 57-175) for:

- (1) The scope of each course, the number of hours required for it, and the instructors giving it.
- (2) Information regarding the courses open to special (graduate) students in medicine.
- (3) Courses which may be counted towards the degrees of A.M. and Ph.D.

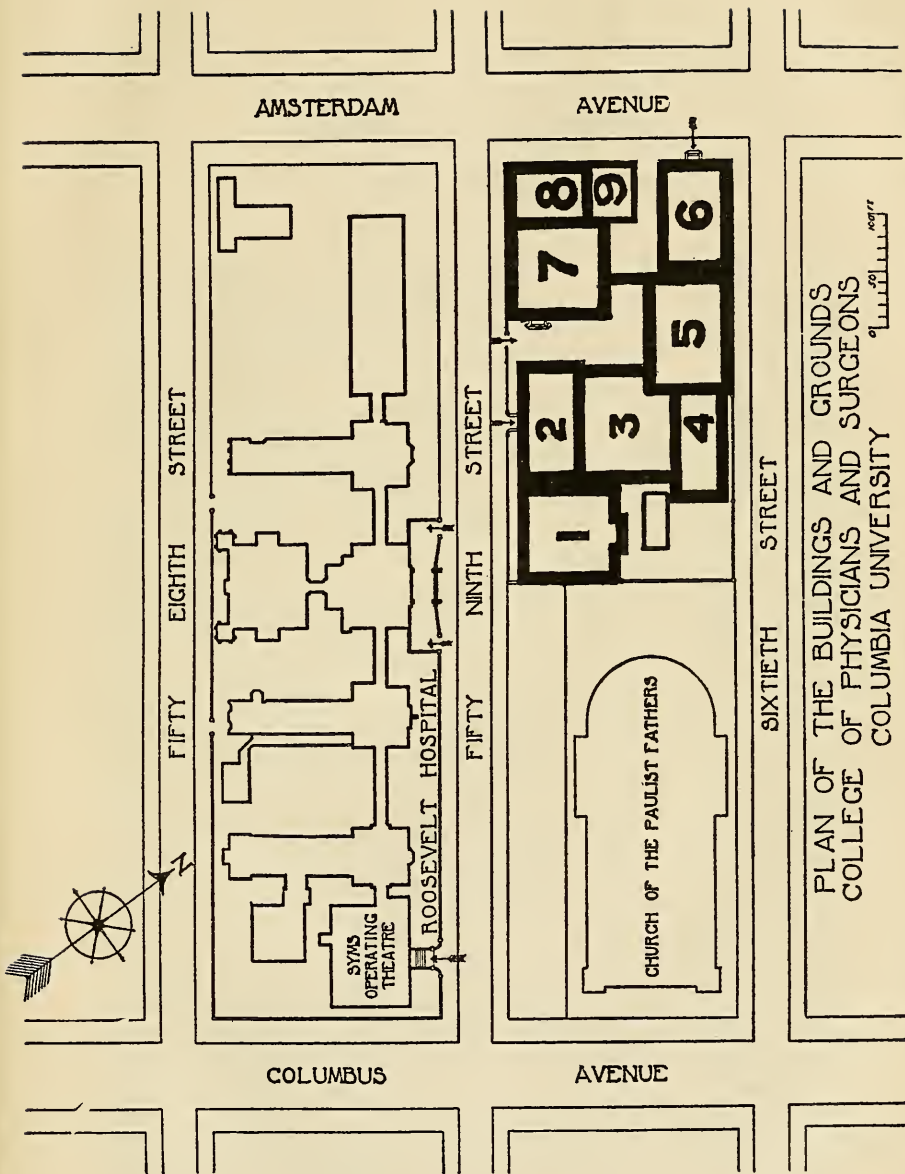
REQUIREMENTS FOR LICENSE TO PRACTISE MEDICINE IN NEW  
YORK STATE

For information, see the *Announcement of the College of Physicians and Surgeons*.

## SUMMER SESSION IN MEDICINE

(See page 412)

A general statement of the work offered will be found in connection with the statement of the Summer Session (see the Table of Contents, this volume), and a detailed announcement, showing the scope of each course, the conditions under which it is given, and the fee charged, will be sent upon application to the Secretary of Columbia University.



# PLAN OF THE BUILDINGS AND GROUNDS COLLEGE OF PHYSICIANS AND SURGEONS COLUMBIA UNIVERSITY

- |                             |                               |                                       |
|-----------------------------|-------------------------------|---------------------------------------|
| No. 1. Institute of Anatomy | No. 4. North Wing             | No. 7. Sloane Maternity Hospital East |
| No. 2. South Wing           | No. 5. Vanderbilt Clinic East | No. 8. Sloane Maternity Hospital West |
| No. 3. Middle Wing          | No. 6. Vanderbilt Clinic West | No. 9. Gynecological Building         |





## REGISTER OF STUDENTS

### School of Medicine

#### FOURTH YEAR—CLASS OF 1913

ADAMS, LEOPOLD.....	New York City
ALLEN, CHARLES INSLEY, B.S. Wake Forest 1911.....	Wadesboro, N. C.
BABCOCK, JAMES WOODS, Litt.B. Rutgers 1909.....	Jersey City, N. J.
BECKWITH, EDGAR WILLIAMS, B.S. New York Univ. 1910.....	New York City
BENDER, WILLIAM FREDERICK.....	New York City
BOUDREAU, CLARENCE E., M.D. Texas Christian Univ.....	New York City
BRANCATI, CHARLES.....	New York City
BRIDGE, EZRA RALPH, A.B. Bowdoin 1909.....	Brunswick, Me.
BRUNO, ALEXANDER, B.S. 1911.....	New York City
BUSCH, HERMAN, B.S. Temple Univ. 1908, A.M. Univ. of Penna., 1911, M.D. Chic. Col. of Med. and Surg. 1911.....	Newark, N. J.
CARLISLE, JOHN HOWE, A.B. Williams 1909.....	Passaic, N. J.
CARR, CHARLES EDMUND, A.B. Indiana 1908.....	Bayonne, N. J.
CARR, FRANK CLYDE.....	Bayonne, N. J.
CASALE, JOHN BAPTIST.....	Newark, N. J.
CELANO, LUIGI.....	Salerno, Italy
CHANDLER, CHARLES PORTER, A.B. Amherst 1909.....	Montpelier, Vt.
CHAPLIN, HUGH, Litt.B. Princeton 1909.....	Ridgewood, N. J.
CLARK, MORRIS HOLDEN.....	Kansas City, Mo.
COLLICA, JEFFREY DANIEL CHARLES.....	New York City
COLTON, WARREN ALFRED.....	Vernal, Utah
CORRY, ROBERT THOMAS.....	New York City
COULTER, CALVIN BREWSTER, A.B. Williams 1907, A.M. Princeton 1908.....	Chicago, Ill.
DAVIS, JAMES MATHESON, B.S. Wake Forest 1911.....	Hiddenite, N. C.
DENNISTON, HAROLD POST.....	Ovid, N. Y.
DI PALMA, SALVATORE.....	New York City
DOWD, HEMAN LAWRENCE, A.B. Princeton 1909.....	Orange, N. J.
DUGDALE, ALLISON HAROLD, B.S. Univ. of Nebraska 1911.....	Omaha, Neb.
EASTMAN, FRED WARD, A.B. Univ. of Missouri 1907.....	Cameron City, Mo.
EFFLER, LOUIS ROBERT, A.B. St. John's Univ. 1909.....	Toledo, Ohio
EGLEE, EDWARD PERCY, A.B. Univ. of Colorado 1909.....	Boulder, Colo.
ESTRIN, HARRY JOSEPH.....	New York City
FARNAM, TRACY.....	New Haven, Conn.
FAULKNER, CLARENCE SANFORD, A.B. Oberlin 1909.....	Sherburne, N. Y.
FEINBERG, MOSES MURRAY, A.B. C. C. N. Y. 1909.....	New York City
FISHER, JUDSON COOK, Ph.B. Syracuse Univ. 1909.....	Sunbury, Pa.
FOSTER, EMORY WENDELL, M.D. Creighton Med. School 1902.....	Worland, Wyoming
FRUCHTMAN, FRANK, B.S. C. C. N. Y. 1908.....	Brooklyn, N. Y.
FRUTH, VIRGIL JAYE.....	Fostoria, Ohio
GAUL, WILLIAM HENRY, Ph.C. 1909.....	Yonkers, N. Y.
GILBERTI, VINCENT.....	Rutherford, N. J.
GRATTAN, JAMES FRANCIS, A.B. C. C. N. Y. 1909.....	New York City
GRIESEMER, ZADOC LAWRENCE, A.B. Muhlenberg 1904.....	Roselle, N. J.
HAAKE, CHARLES HENRY GRUBE.....	New York City

HALLER, DAVID ALEXANDER, A.B. Hampden Sidney 1908.....	Pocahontas, Va.
HAMRICK, JAMES YATES, B.S. Wake Forest 1911.....	Shelby, N. C.
HAYS, LESLIE ST. CLAIR, A.B. Presbyterian (S. C.) 1906.....	Clinton, S. C.
HETZEL, WILLIAM BARR, A.B. Princeton 1909.....	Pittsburgh, Pa.
HORNSTEIN, MARK.....	Montreal, Can.
HOUGHTON, GUY SWINEBURNE, A.B. Hobart 1905.....	Albany, N. Y.
IORIO, EMILE FILIBERTO.....	Brooklyn, N. Y.
JENNINGS, EDWARD ALLEN, Ph.B. Wesleyan 1907.....	Short Hills, N. J.
JONES, BRUCE LEIGH.....	Raleigh, N. C.
KEITH, WILLIAM NEELY, A.B. Lafayette 1905.....	Newtown, Pa.
KELLOGG, WILLIAM ALVIN, A.B. 1908.....	New York City
KNIGHT, WILLIAM ALLEN, B.S. Drury 1907.....	Conway, Mo.
KUNSTLER, MONROE BRADFORD, B.S. 1911.....	New York City
LENZ, MAURICE.....	New York City
LE SEUR, HORACE HUTCHINS, A.B. Rochester 1910.....	Batavia, N. Y.
LEVINE, SOLOMON.....	Brooklyn, N. Y.
LOGGINS, JAMES A., A.B. Park 1909.....	Devine, Texas
LOURIA, ALEXANDER LEON, B.S. 1910.....	Brooklyn, N. Y.
LOWENS, HARRY.....	New York City
MACKENZIE, GEORGE MINER, A.B. 1907.....	Dobbs Ferry, N. Y.
MAYER, EDGAR, A.B. C. C. N. Y. 1909.....	New York City
MCWILLIAMS, NORMAN BEATTIE, A.B. Princeton 1909.....	Ossining, N. Y.
MEBANE, TOM SPERRING.....	Wilkes-Barre, Pa.
MINERVINI, VIRGINIUS.....	New York City
MISTRETTA, JOSEPH.....	New York City
MOITRIER, WILLIAM, JR., A.B. 1910.....	Brooklyn, N. Y.
MOODY, LAWRIE MASON, M.D. P. & S. St. Louis 1903.....	Madisonville, Ky.
O'LEARY, JOHN GEORGE, A.B. Georgetown 1895.....	Canandaigua, N. Y.
PAINÉ, EDWARD WARREN.....	Winslow, Me.
PALEG, SAMUEL.....	New York City
PETERS, JOHN PUNNETT, JR., A.B. Yale 1908.....	New York City
PHIPPS, WILLIAM GILES.....	Mt. Vernon, N. Y.
PLOTZ, HARRY.....	Brooklyn, N. Y.
POTTER, HOWARD WIELAND.....	Elizabeth, N. J.
RATTNER, CHARLES GEORGE.....	New York City
RHETT, WYTHE MUMFORD, B.S. Virginia Military Inst. 1909.....	Columbus, Miss.
ROSENTHAL, NATHAN.....	Spotswood, N. J.
ROTH, LEO (Lipot).....	New York City
SAGARINO, JOHN FRANCIS, Ph.B. Yale 1909.....	Hartford, Conn.
SASSULSKY, ISIDOR JESSE.....	Brooklyn, N. Y.
SCHWERD, FREDERICK M.....	New York City
SHANK, EVERETT WILLIAM, A.B. Oberlin 1902.....	Dayton, Ohio
SHAPIRO, LOUIS GERSHON.....	Paterson, N. J.
SHATTUCK, HOWARD FRANCIS, A.B. Yale 1911.....	Columbus, Ohio
SIMMONS, EDWARD BURNSIDE, B.S. Colgate 1906.....	Worcester, Mass.
SKEEL, HENRY ROBERTSON, A.B. Wesleyan 1909.....	New York City
SPENCER, HENRY JAMES, A.B. Syracuse 1907, A.M. Williams 1908..	Factoryville, Pa.
STEFFEN, WALTHER CHARLES AUGUST.....	College Point, N. Y.
STEPHENS, RICHMOND, B.S. 1911.....	New Brighton, N. Y.
STICKLES, LLOYD, A.B. 1911.....	Newark, N. J.
STILLMAN, ERNEST GOODRICH, A.B. Harvard 1907.....	New York City
STRAUSS, SPENCER GOLDSMITH, A.B. Cornell 1909.....	New York City
STREET, AUGUSTUS.....	Vicksburg, Miss.
STREET, GEORGE McQUEEN.....	Vicksburg, Miss.
SWIFT, SAMUEL, A.B. Yale 1908.....	New York City

TAYLOR, FENTON, A.B. Harvard 1909.....	New York City
THORBURN, GRANT, A.B. Princeton 1909.....	New York City
UNGER, LESTER JARECKY, A.B. C. C. N. Y. 1909, A.M. 1912.....	New York City
VAN HORN, HERMAN HENRY, A.B. Yale 1904.....	Sandy Creek, N. Y.
WELLINGTON, HAROLD WENTWORTH.....	East Baintree, Mass.
WIGGERS, AUGUST FRANK ALBERT, Phar.D. 1899.....	New York City
WILLIAMS, JOHN EDWARD.....	Roselle Park, N. J.
WINSLOW, THOMAS SCUDDER, A.B. Williams 1909.....	Poughkeepsie, N. Y.
YOUNG, JAMES FREDERICK.....	Danbury, Conn.
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## THIRD YEAR—CLASS OF 1914

ACKER, GEORGE NICHOLAS, JR., B.S. Pennsylvania 1909.....	Washington, D. C.
ADLER, HERBERT.....	New York City
ALEXANDER, HARRY LOUIS, A.B. Williams 1910.....	New York City
BENDER, MAURICE BLOCHER, B.S. Pennsylvania 1909.....	Gettysburg, Pa.
BENSON, ARTHUR WRIGHT, A.B. Cornell 1910.....	Troy, N. Y.
BOAS, ERNST PHILIP, B.S. 1910, A.M. 1912.....	Grantwood, N. J.
BRADDOCK, WILLIAM HALLOCK, A.B. Princeton 1908.....	New York City
BRASTED, HOWARD SPENCER, A.B. Hamilton 1910.....	Hornell, N. Y.
BRILL, ISIDOR CHERNIACK, A.B. 1912.....	Portland, Ore.
BROTHERS, JAMES H., JR.....	New Brighton, N. Y.
BURLINGHAM, ROBERT, A.B. Harvard 1910.....	New York City
CADY, LYNDON BULKLEY, A.B. Williams 1910.....	New York City
CALDWELL, GUY ALVIN, B.S. Univ. of Mississippi 1912.....	Corinth, Miss.
COVEY, GEORGE WORTHINGTON, B.S. Univ. of Nebraska 1912.....	College View, Neb.
COX, FOUNTAIN FULBERT, B.S. Wake Forest 1911.....	Winterville, N. C.
DINEEN, PAUL ALBINUS LEO, A.B. St. Francis Xavier 1910.....	New York City
EBELING, WILLIAM BRUNO, B.S. 1912.....	Brooklyn, N. Y.
EDWARDS, BRYANT BENJAMIN, B.S. Univ. of Alabama 1910.....	Union Springs, Ala.
EICHORN, LOUIS MAXIME, B.S. C. C. N. Y. 1902.....	New York City
FREUND, HAROLD HERMAN.....	New York City
FURNISS, CLINTON CHOLLET.....	New York City
GAMRIN, ELIAS.....	New York City
GILLSON, HUGH VINCENT, A.B. St. Peters 1910.....	Paterson, N. J.
HALPERN, HERMAN.....	New York City
HAND, CORTLAND KIERNAN.....	Mount Vernon, N. Y.
HANSEN, HARRY BEAUVOIR, Ph.C. 1910.....	Weehawken, N. J.
HUTCHISON, FRED RUDY, B.S. Princeton 1908.....	Alexandria, Pa.
IRISH, CHARLES GILBERT, A.B. Hobart 1911.....	Lancaster, N. Y.
IRVINE, ROBERT STEELE, B.S. Univ. of Nebraska 1912.....	College View, Neb.
JOHNSON, JOHN LORING, A.B. Bowdoin 1911.....	Houlton, Me.
KAPLAN, IRA I., B.S. C. C. N. Y. 1910.....	New York City
KATZ, ELIHU, A.B. C. C. N. Y. 1910.....	Brooklyn, N. Y.
KERLEY, JAMES HOYT, A.B. 1912.....	Brooklyn, N. Y.
KOMINZ, JACOB SAMUEL, B.S. Univ. of Rochester 1909.....	Rochester, N. Y.
KRAKOW, MOSES HYMEN.....	New York City
KUHLMAN, ALVIN EDGAR, Ph.C. 1910.....	Union, N. J.
LANDY, JOSEPH AARON, A.B. C. C. N. Y. 1910.....	New York City
LARSON, HENRY MAXWELL, JR., A.B. Colorado College 1910.....	Brooklyn, N. Y.
LELLMANN, WILFRED OTTO LOUIS.....	New York City
LUBARSKY, DAVID ARTHUR.....	New York City
MARSHALL, HYRUM LEO, A.B. Univ. of Utah 1908.....	Salt Lake City, Utah
MCBRIDE, EARL D., B.S. Oklahoma 1912.....	Watonga, Oklahoma

MCCANN, DANIEL FRANCIS, JR., A.B. Georgetown 1910.....	Brooklyn, N. Y.
MCGREEN, FRANCIS AUGUSTINE.....	Bellows Falls, Vt.
MILES, SETH HERBERT, B.S. Univ. of Nebraska 1912.....	South Lancaster, Mass.
MOORE, ROBERT BOOTH.....	Searcy, Ark.
MORRISON, WHITELAW REID, A.M. Oberlin 1910.....	Ohio, Pa.
NATANSON, DAVID MORRIS, B.S. C. C. N. Y. 1910.....	New York City
NILES, FRANK LEE, B.S. Univ. of Cal. 1911.....	San Francisco, Cal.
PADDOCK, ROYCE, A.B. 1910.....	New York City
PALLEN, CONDE DE SALES, A.B. Georgetown 1910.....	New Rochelle, N. Y.
PARSONS, WILLIAM BARCLAY, JR., A.B. Harvard 1910.....	New York City
PASSOVER, GREGORY CONSTANTINE.....	New York City
PETERS, ANDREW, JR., B.S. 1912.....	Brooklyn, N. Y.
PHILIPS, HERMAN BYROL.....	New York City
POMEROY, FRANK KENNETH, A.B. Leland Stanford.....	Palo Alto, Cal.
RAYNOLDS, RANDOLPH, A.B. Yale 1909.....	New Haven, Conn.
ROGERS, RUPERT REED, A.B. Oberlin 1910.....	Wellington, Ohio
ROSENBLÜTH, MILTON BENJAMIN, A.B. 1911.....	New York City
ROSENSON, WILLIAM, B.S. C. C. N. Y. 1910.....	New York City
RUNGE, OTTO ERNST.....	Brooklyn, N. Y.
SCUDDER, FRANK DYCKMAN, A.B. Yale 1910.....	Tompkinsville, N. Y.
SEIBELS, ROBERT EMMET, B.S. Univ. of South Carolina 1910.....	Columbia, S. C.
SHIRLEY, AMOS REGINALD, A.B. 1912.....	New York City
SHULANSKY, JACOB, Ph.B. Yale 1910.....	Hartford, Conn.
SINCLAIR, DONALD BUNKER, A.B. Princeton 1910.....	New York City
SMALE, WILLIAM P., JR., A.B. 1912.....	New York City
SMITH, THAYER ADAMS, A.B. Dartmouth 1910.....	Hanover, N. H.
ST. GEORGE, ARMIN VON, Ph.C. 1910.....	Jersey City, N. J.
SULLIVAN, TIMOTHY FRANCIS XAVIER, A.B. C. C. N. Y. 1907.....	New York City
TITUS, NORMAN EDWARD, Ph.B. Yale 1910.....	New York City
VERMILYE, HERBERT NOBLE, A.B. Princeton 1910.....	Orange, N. J.
VOLOVIC, GREGORI OSSIPOVICH.....	New York City
WARD, DELANCEY WALTON, Ph.D. 1894.....	New York City
WEISS, ADOLPH ABRAHAM, A.B. C. C. N. Y. 1910.....	New York City
WHITE, EDGAR WILLIAM, B.S. Univ. of Mich. 1912.....	New York City
WILLIAMS, JESSE FEIRING, A.B. Oberlin 1909.....	New York City
YOUNG, RALPH HOWARD, A.B. 1912.....	Newport, R. I.
Third Year—Class of 1914.....	78

## SECOND YEAR—CLASS OF 1915

ALLISON, BENJAMIN ROY, B.S. Dartmouth 1911.....	Malone, N. Y.
BAKER, WILLIS POWER.....	Cranford, N. J.
BERMAN, LOUIS.....	New York City
BIDWELL, ALFRED MORRELL, Ph.B. Yale 1911.....	Jersey City, N. J.
BINDERMAN, SAUL ARTHUR, B.A. C. C. N. Y. 1910.....	New York City
BONNLANDER, VINCENT CHARLES, A.B. 1908.....	Brooklyn, N. Y.
BROKAW, RAYMOND VOORHEES.....	Plainfield, N. J.
CARP, LOUIS.....	New York City
CLARKE, PHILIP HENRY.....	Holyoke, Mass.
CLEVELAND, MATHER, A.B. Yale 1911.....	Denver, Colo.
COLP, RALPH (Senior Columbia College).....	New York City
COLVIN, WILLIAM PUTNAM.....	New York City
CONKLIN, CORNELIUS STEPHEN.....	Ansonia, Conn.
DINGMAN, NORMAN MCLEOD, A.B. 1912.....	Spring Valley, N. Y.
DODD, RAYMOND CANFIELD, A.B. Williams 1911.....	Glen Ridge, N. J.
DOLD, DOUGLAS MERIWETHER.....	Astoria, N. Y.
FELSEN, JOSEPH, A.B. C. C. N. Y. 1911.....	New York City



FRIEDMAN, WILLIAM	New York City
GOLDBERG, HARRY	New York City
GOLDSTONE, JOSEPH, A.B. C. C. N. Y. 1910	New York City
GOTTESMAN, JULIUS, B.S. C. C. N. Y. 1911	New York City
GREENBERGER, MORRIS	New York City
HALSTED, HALCYON, Pd.B. Colo. State Teachers College 1910	Greeley, Colo.
HOLZMAN, MARTIN (Senior Columbia College)	New York City
HURD, RALPH ABRAHAM	Stony Point, N. Y.
HYMAN, JULIUS, A.B. C. C. N. Y.	New York City
IAASON, ALFRED H., A.B. 1912	Brooklyn, N. Y.
JACOBS, ALEXANDER W.	New York City
JERSKEY, ABRAHAM, A.B. C. C. N. Y. 1911	Brooklyn, N. Y.
JOHNSON, HAROLD FOOTE, A.B. Hamilton 1911	Oxford, N. Y.
JOHNSON, REDFORD KOHLSAAT	Dana, Mass.
KENNY, JOHN J., A.B. St. Thomas 1911	Mankato, Minn.
KLEIN, EUGENE (Senior Columbia College)	New York City
KRAMER, BERTRAM, B.S. C. C. N. Y. 1910	New York City
LADD, WILLIAM SARGENT, B.S. Amherst 1910	Portland, Ore.
LASHER, WILLIS W.	Germantown, N. Y.
LEVY, JEROME (Senior Columbia College)	Brooklyn, N. Y.
LEWIS, RAYMOND WILLIAMS, A.B. Yale 1911	New Britain, Conn.
McELVARE, GEORGE GERARD (Senior Columbia College)	Brooklyn, N. Y.
MARTINSON, HERMAN, A.B. C. C. N. Y. 1911	New York City
MAYER, MAX DAVID, A.B. 1912	New York City
MELENEY, HENRY EDMUND, A.B. Dartmouth 1909	Brooklyn, N. Y.
MICHAELS, LEO	New York City
NEWFIELD, LEWIS ALFRED, Ph.B. Brown 1911	Brooklyn, N. Y.
NICHOLS, CHARLES FAY, A.B. Oberlin 1911	Watkins, N. Y.
OVERTON, JOHN ARTHUR	New York City
PARDEE, IRVING HOTCHKISS (Senior Columbia College)	New York City
PRICE, JOSEPH (Senior Columbia College)	New York City
PYLE, EDWIN	Yonkers, N. Y.
RAMSAY, ALEXANDER DUNN, B.S. Ph.C. Vanderbilt 1907-1909	New York City
REYNOLDS, ROBERT JESSE, A.B. 1912	Potsdam, N. Y.
RUDOLPHY, JAY BESSON	Hoboken, N. J.
SANDERS, THEODORE MICHAEL, A.B. 1912	New York City
SEIFF, HARRY JOSEPH, B.S. C. C. N. Y. 1911	New York City
SMITH, ALAN DE FOREST (Senior Columbia College)	New York City
SMITH, HAROLD ELLSWORTH, A.B. Yale 1911	New York City
SOBIN, JULIUS, A.B. C. C. N. Y. 1909	Bayonne, N. J.
STAFFORD, HENRY GRANT	New Rochelle, N. Y.
STEARNS, WILBUR WATKINS, A.B. 1912	Yonkers, N. Y.
STEEL, JAMES ALEXANDER, B.S. 1911	Las Cruces, New Mex.
STEINHAUSER, WILLIAM	New York City
STEVENS, ALBERT MASON, A.B. Yale 1905, A.B. Oxford 1908	Brooklyn, N. Y.
STEVENS, NEIL CAMPBELL, A.B. Yale 1910	Morristown, N. J.
SUSSMAN, HENRY ALEXANDER, B.S. C. C. N. Y. 1911	Brooklyn, N. Y.
TAYLOR, HAROLD WILLIAMS, A.B. Columbia 1909	New York City
THOMAS, CLARENCE PROCTOR, A.B. Yale 1911	New York City
UNGER, JONAS J., JR., A.B. C. C. N. Y. 1911	New York City
VALENSI, ALBERT (Senior Columbia College)	New York City
YOUNG, JOHN JOSEPH, JR., A.B. St. Francis 1911	Brooklyn, N. Y.
ZION, LEWIS, A.B. C. C. N. Y. 1911	New York City
Second Year—Class of 1915	61
Seniors from Columbia College	9



## FIRST YEAR—CLASS OF 1916

BELL, ALFRED LEE LOOMIS.....	Englewood, N. J.
BISHOP, HUTCHENS CHEW, JR.....	New York City
BLANTON, WYNDHAM BOLLING, A.B. Hampden Sidney 1910, A.M. Univ. of.....	Virginia 1912.....
BLISS, WALTER PARKS, A.B. and A.M. Wesleyan 1909 and 1910.....	Upper Montclair, N. J.
BLUESTONE, EPHRAIM MICHAEL (Junior Columbia College).....	New York City
BONFELD, MAX LOUIS, A.B. Univ. of Alabama.....	Pratt City, Ala.
BONVICINO, LOUIS ANTHONY.....	Brooklyn, N. Y.
BOSTANIAN, KEVORK NERSES, A.B. Central Turkey College 1907.....	Aintab, Syria
BRADY, LEOPOLD (Junior Columbia College).....	Brooklyn, N. Y.
BRUNER, ABRAM BRENNEMAN.....	Columbia, Pa.
BULL, DAVID CHAPMAN, Ph.B. Yale 1912.....	Naugatuck, Conn.
BUTLER, CHARLES TERRY, A.B. Princeton 1912.....	New York City
CARNALL, WALTER THOMAS.....	Colorado Springs, Colo.
CRAWL, FRANKLIN ROBERT (Junior Columbia College).....	Brooklyn, N. Y.
CHAPMAN, WILL HARMON, Ph.B. Yale 1912.....	New Britain, Conn.
COHEN, DAVID M., B.S. C. C. N. Y. 1910.....	New York City
COLLINS, HOMER GARTON.....	Meyersdale, Pa.
CONAN, NEAL JOSEPH, A.B. St. John's College.....	Pompey, N. Y.
COX, WESLEY CNTRA (Senior Columbia College).....	Brooklyn, N. Y.
DODDS, WILLIAM PAUL, Litt.B. Princeton 1912.....	Kingston, N. Y.
FENSTERBLAU, LIONEL IRVING, A.B. C. C. N. Y. 1912.....	Brooklyn, N. Y.
FERRY, RONALD MANSFIELD, A.B. Harvard 1912.....	New York City
FIELD, MANNING CROMWELL, A.B. Williams 1912.....	Brooklyn, N. Y.
FISKE, PLINY BAXTER, Ph.B. Hamilton 1910.....	Byron, N. Y.
FOOTE, MERRILL NEWTON.....	Richmond Hill, N. Y.
FORTUINE, STANLEY THEODORE, A.B. Hope College 1912.....	Holland, Mich.
GESELL, HANS, Ph.C., B.S. Univ. of Michigan 1911.....	Montclair, N. J.
GAYER, HUGH WALTERS.....	New York City
GOLDFARB, BARNETT, A.B. C. C. N. Y. 1912.....	Brooklyn, N. Y.
GOODGLICK, SAMUEL.....	Seattle, Wash.
GORSCH, RUDOLPH VICTOR, A.B. N. Y. Univ. 1911.....	New York City
GROLLMAN, MEYER, A.B. C. C. N. Y. 1912.....	New York City
HAINES, DALLAS WAY (Senior Columbia College).....	New York City
HAUBEN, LOUIS (Junior Columbia College).....	New York City
HERBERT, LEON MOSES, A.B. C. C. N. Y. 1906, A.M. Columbia 1908.....	New York City
HERMES, HARRY LEONARD, Ph.C. 1911.....	New York City
HUDSON, ERASTUS MEAD.....	Plattsburgh, N. Y.
HUMB, WALTER FAIRBANK, Ph.B. Yale 1912.....	Springfield, Mass.
JOHNSON, PAUL BARRUS.....	New York City
JORDAN, CYRUS VICTOR, A.B. C. C. N. Y. 1900.....	New York City
KAHN, SAMUEL, B.S. 1912.....	New York City
KUHN, ISIDOR (Junior Columbia College).....	New York City
LEGGITT, THOMAS HAIGHT, JR. (Junior Columbia College).....	Plainfield, N. J.
LINTZ, JOSEPH (Junior Columbia College).....	Brooklyn, N. Y.
LYNCH, JAMES AUGUSTINE (Junior Columbia College).....	New York City
MAGNETTE, JULES, JR. (Junior Columbia College).....	Newark, N. J.
MAHON, HUGH W., A.B. C. C. N. Y. 1912.....	New York City
MAMELOK, LOUIS, A.B. C. C. N. Y. 1912.....	New York City
MANN, LEWIS THEODORE.....	Brooklyn, N. Y.
MCCNEIL, HECTOR JAMES.....	Brooklyn, N. Y.
MCPHERSON, CHARLES A. J., A.B. Clark 1909.....	Wedowee, Ala.
MELBNEY, FRANK LAMONT, A.B. Dartmouth 1910.....	Brooklyn, N. Y.
MESSING, ARNOLD, A.B. C. C. N. Y. 1912.....	New York City

MILLER, MILTON VALENTINE, B.S. Gettysburg 1911.....	Columbia, Pa.
MORRISON, FREDERICK HOLTON, A.B. Harvard 1912.....	Newton, N. J.
MUESCH, EDWARD GEORGE, A.B. St. Francis Xavier 1912.....	Brooklyn, N. Y.
NEMSER, MAXIMILIAN, Ph.C. 1912.....	New York City
NICOLSON, WILLIAM PERRIN, JR., A.B. Univ. of Georgia 1912.....	Atlanta, Ga.
O'CONNOR, ARTHUR JOSEPH.....	Brooklyn, N. Y.
O'DOWD, JOHN JOSEPH, A.B. St. Francis Xavier 1912.....	New York City
OSSERMAN, HYMAN AARON (Junior Columbia College).....	Edgewater, N. J.
RAND, EWING HASCALL, A.B. Yale 1911.....	Lawrence, N. Y.
RAYLE, ALBERT AMIS, JR., A.B. Mercer Univ. 1908, A.M. Univ. of Georgia 1912	
.....	Lexington, Ga.
ROBERTIELLO, ATTILIO, Ph.C. 1912.....	New York City
ROGERS, RONALD BACON.....	Neenah, Wis.
ROSENMAN, JACOB DANIEL.....	New York City
SALOMON, ALFRED VICTOR, B.S. C. C. N. Y. 1912.....	New York City
SCHLEUSSNER, ROBERT CLINTON, Ph.C. 1912.....	New York City
SCHRAM, CLARE FRED NESBIT.....	Brooklyn, N. Y.
SCOTT, PETER ALFRED (Junior Columbia College).....	Tottenville, N. Y.
SEAMAN, JAMES A.....	Brooklyn, N. Y.
SHIBLEY, GERALD SPENCER (Senior Columbia College).....	New York City
SMITH, GROVES BLAKE.....	Godfrey, Ill.
SODERSTROM, GUSTAVE ALBIN, A.B. Upsala 1911.....	Jamestown, N. Y.
STADIE, WILLIAM C., B.S. and M.S. N. Y. Univ. 1907 and 1912.....	New York City
STEINER, EUGENE, A.B. Univ. of the South 1912.....	Austin, Texas
STEINHOIZ, REUBEN, B.S. C. C. N. Y. 1912.....	New York City
ST. LAWRENCE, ARTHUR JOHN, Ph.B. Yale 1909.....	West Haven, Conn.
STRUMWASSER, SAMUEL, B.S. C. C. N. Y. 1912.....	New York City
SUTLIFF, EDWARD HARRISON (Junior Columbia College).....	Brooklyn, N. Y.
TRACY, GROVER, A.B. Gettysburg 1909.....	Lineboro, Md.
TRACEY, WILLIAM WALLACE, Ph.B. Yale 1912.....	Norwalk, Conn.
TRUMBOWER, WILLIAM CREVELING.....	Bayonne, N. J.
VINCENT, LEONARD MARSHALL, B.S. Colgate 1912.....	Three Mile Bay, N. Y.
WESTERMANN, JOHN JACOB, JR., A.B. Yale 1912.....	Chicora, Pa.
WIENER, JACOB J.....	Rockaway Beach, N. Y.
WILLS, CHARLES EDWARD, A.B. Mercer Univ. 1912.....	Washington, Ga.
WILSON, JAMES (Junior Columbia College).....	Jersey City, N. J.
ZAMKIN, HARRY OSCAR, B.S. C. C. N. Y. 1912.....	New York City
First Year—Class of 1916.....	73
Seniors from Columbia College.....	3
Juniors from Columbia College.....	13

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## NON-MATRICULATED (SPECIAL) STUDENTS

Non-matriculated.....	24
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## SUMMARY

Fourth Year—Class of 1913.....	107
Third Year—Class of 1914.....	78
Second Year—Class of 1915.....	61
First Year—Class of 1916.....	73
Non-matriculated (special students).....	24

343

Juniors and Seniors from Columbia College.....	25
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Total.....	368
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## THE SCHOOLS OF MINES, ENGINEERING, AND CHEMISTRY

### The Faculty

President BUTLER

Dean GOETZE

Professors ARENDT, BEANS, BERKEY <sup>1</sup>BLACK, BLANCHARD, BOGERT, BURNSIDE, BURR, CAMPBELL <sup>1</sup>CROCKER, CURTIS, DAVIS, FISKE, FITE, FREAS, GRABAU, HALL, HALLÖCK, HARRINGTON, HAWKES, HOWE, JACOBY, JONES (*Secretary*), <sup>2</sup>KEMP, KERN, KEYSER, KURTZ, LOVELL, <sup>3</sup>LUCKE, LUQUER, MACLAY, MAYER, METZGER, MEYLAN, MILLER, <sup>1</sup>MITCHELL (S. A.), MORECROFT, MORGAN (J. L. R.), MOSES, MUNROE, PARR, PEELE, PEGRAM, PIGOTT, PUPIN, RAUTENSTRAUCH, SHERMAN (H. C.), SLICHTER, SMITH (ALEXANDER), THOMAS, TUCKER, WALKER, WENDELL, WHITAKER, WILLIAMS, <sup>3</sup>WILLS

### Standing Committee

COMMITTEE ON INSTRUCTION: The Dean (*Chairman*), Professors Kemp, Lovell, Lucke, Mayer, Walker, Wendell, and Whitaker

Delegates to the University Council, see page 3.

### COURSES

The Faculty of Applied Science has charge of the following schools:

The SCHOOL OF MINES, with four-year courses leading to the degrees of Engineer of Mines and Metallurgical Engineer.

The SCHOOL OF ENGINEERING, with four-year courses in Civil Engineering, Sanitary Engineering, Electrical Engineering, and Mechanical Engineering, the first two leading to the degree of Civil Engineer, and the others to the degree of Electrical Engineer and Mechanical Engineer, respectively.

The SCHOOL OF CHEMISTRY, with four-year courses leading to the degrees of Chemist and Chemical Engineer.

These courses are intended to meet the requirements of the several professions indicated. Many of the courses permit a certain amount of specialization, particularly in the fourth year.

Candidates for a professional degree who have some special end in view are sometimes permitted to vary the regular course by substituting for the courses ordinarily prescribed, courses for other degrees offered

<sup>1</sup> Absent on leave 1912-1913.

<sup>2</sup> Absent on leave first half-year.

<sup>3</sup> Absent on leave second half-year.

under this Faculty. Students holding an academic degree who become candidates for the degree of Master of Arts or Doctor of Philosophy may offer work in one or more of these branches of technology either as a major or a minor subject under the Faculty of Pure Science and will be given opportunity for special study and investigation.

(See page 185)

### ADMISSION

(See also page 169)

#### Collegiate Preparation Recommended

The liberal training offered by a preliminary Collegiate Course is quite as important to engineers, metallurgists, and chemists as to lawyers, physicians, or clergymen, and is strongly recommended by the Faculty of Applied Science. This, however, does not and should not involve a residence of eight years in college and technical school before a candidate receives the professional degree.

A graduate of any good college who has selected his course with reference to future work in applied science is able to complete the requirements for a degree in the Schools of Mines, Engineering, and Chemistry in less than four years after receiving the Bachelor's degree. The opportunities for close articulation between Columbia College and these Schools are particularly good.

#### Requirements for Admission for Students without Collegiate Preparation

(See page 169)

#### Advanced Standing

The uniform first year in the Schools of Mines, Engineering, and Chemistry, and the efficient coördination of the subsequent years, make it possible for graduates of colleges and scientific schools to enter Columbia University with advanced standing and to complete the requirements for a professional degree without undue delay through conflicts and other causes. It is very desirable, however, that students in other colleges who are planning to take professional work after graduation should get into correspondence with the University as early as possible. If this is done they may receive advice with regard to the most advantageous collegiate subjects to elect, and also with regard to the summer courses of Columbia University. By taking certain summer work at the University in advance, a student sometimes may save six months or a year in entering upon his professional career.

Candidates for admission to advanced standing should make application in writing to the Chairman of the Committee on Undergraduate



Admissions in time to reach him before September 8, 1913.<sup>1</sup> The application must be accompanied by properly certified official statements of his standing in the subjects which he offers.

The Committee will notify the candidate at the address given in his letter, between September 8 and 12, 1913, what courses, of those offered, are accepted as equivalent to courses at Columbia University. In general, the Committee gives credit for complete courses only. In cases where the work previously done by the candidate has not been accepted by the Committee, the candidate should present himself at regular fall examinations during the two weeks immediately preceding the opening of the University (in 1913, September 15-22). For courses in which no regular fall examination is held, the candidate should report at the office of the Dean. The schedule of fall examinations may be obtained from the Registrar. A fee of \$5 is charged for these examinations, to all applicants who do not take them at the regular time.

No applicant will be allowed to enter the fourth-year class as a candidate for a degree after October 15th in any year.

It is suggested that candidates deficient in one or more entrance subjects in June, or who desire to make up first- and second-year subjects, arrange to take courses in them in the Summer Session of Columbia University, beginning on July 7, 1913, the *Announcement* of which will be sent upon application to the Secretary of the University.

#### Admission to Special Courses

Graduates of the Schools of Mines, Engineering, and Chemistry, and of other institutions of equal grade may pursue any subjects taught in the schools for which they are properly qualified.

Persons of mature age who are not graduates, but who show special qualifications, are sometimes permitted to pursue special courses, but this permission is not given to others.

### NEW REQUIREMENTS FOR ADMISSION

To go into effect September, 1914

Beginning with the year 1914, the curriculum of the Schools of Mines, Engineering and Chemistry will be reorganized and the requirement for admission will be increased. Three years of specialized professional study will be offered leading to the several technical degrees granted in the Schools of Mines, Engineering and Chemistry. The requirements for admission to these schools will be the completion of at least three years of a college or scientific school course including thorough instruction in Mathematics, Physics, Chemistry, and, in addition, certain courses in Drafting, Shopwork, Surveying and Mineralogy.

<sup>1</sup> When the candidate is at a considerable distance from the University, his application should be made as early as possible in order that he may receive the reply in time to present himself at the University on September 15, 1913.



## Registration and Fees

(See page 41, *et seq.*)

## Fellowships and Scholarships

(See page 450)

As a suitable preparation for this advanced work, a new course has been organized in Columbia College, leading to the degree of B.S. Half of the student's time is given to thorough sequential work in Mathematics, Physics, Chemistry. Most of the remainder is devoted to courses in English, the Modern Languages, History, Philosophy, and the Political Sciences, and there is some special work in Drafting, Surveying, etc., prerequisite to the professional programs. This course is so arranged that a well-prepared student should be able to complete it without undue strain in three years. A student who enters college at the normal age would, therefore, be able to complete the preliminary college course and the three years' professional course by the age of 23.

## Rules Governing Students

1. A student cannot be a candidate for more than one professional degree at the same time.
2. A candidate for a degree must comply with all requirements in force at the time said degree is conferred.
3. A student will be permitted to substitute one subject for another provided he obtains the consent of the Dean, the heads of departments concerned, and the head of the department giving the technical instruction leading to the degree.
4. A student absent from more than one-tenth of the required exercises will be debarred from examination in that subject. No student shall be exempt from this regulation except by action of the Committee on Instruction.
5. After examinations have been held, officers shall send to the Registrar a list of all students who have attended their courses, indicating proficiency by numbers on a scale of 10, a mark below 6 signifying a failure to pass. Reports of standing will be sent to First- and Second-year students every five weeks and to the Third- and Fourth-year students at the end of each term. Copies of all reports are, at the same time, sent to the Dean, to the Faculty Adviser, and, in the case of First- and Second-year students, the parent or guardian. They will be sent to the parent or guardian of Third- and Fourth-year students only on request.
6. Regular examinations shall be held at the end of the first half-year and at the end of the second half-year in all subjects offered during those respective periods. An examination may be held at the completion of any subject which does not extend throughout the given half-year.
7. Special examinations for students deficient at regular examinations

shall be held during the two weeks in September preceding the opening of the next following academic year; and for members of the Fourth class in subjects belonging to that year only, during the first week in May.

Students who have been debarred are excluded from such examinations in accordance with the terms of the following rule:

Any student who shall have been debarred from any midyear or final examination in any subject shall not be allowed to take a deficiency or make-up examination in said subject until he shall have repeated said course in class.

8. Failure to pass a Summer Session course, credit for which would be accepted as equivalent to a regular undergraduate course in the Schools of Mines, Engineering, and Chemistry, shall be counted, in case a student registers for said course, as one of the three failures referred to in Rule 10.

9. The fee for special examinations is \$5 for each course, which must be paid when the application is made. For special examinations in the September series the maximum fee is \$25.

10. A student failing to pass in any subject at the regular examinations must present himself for special examination as provided under Rule 7.

Failing to pass the second examination, he must repeat the subject with the next class. Failing a third time to pass a satisfactory examination he may be dropped from the roll of the school.

11. Absence from any regular or special examination provided for in Rules 7 and 8 shall count as a failure unless excused by the Dean for reasons of weight.

12. No student having an entrance deficiency shall be permitted to register for any subject of the second, third, or fourth year without the written consent of the Dean, and no student shall be permitted to register for any subject the prerequisites for which have not been satisfied by him unless the Dean, for reasons of weight, grants him special permission.

13. Any student who shall have passed a satisfactory examination in Columbia College in any subject forming a part of one of the professional courses in the Schools of Mines, Engineering, and Chemistry, will not be required to pursue that subject a second time.

14. During vacations following the close of each year, memoirs on assigned subjects must be prepared by the students in the courses of Mining, Metallurgy, Civil Engineering, Electrical Engineering, Mechanical Engineering, Chemical Engineering, and Chemistry. The time specified for the completion and handing in of memoirs will be as stated in the respective departmental announcements.

A student failing to hand in his memoir, drawings, or other summer work at the time specified by the department in which he is registered shall be considered to have failed; to have his work received later, he will be obliged to pay a fee of \$5, as for a special examination.

15. By permission of the Dean, and concurrence of the heads of departments concerned, a student may attend subjects not required for his degree, provided such attendance does not interfere with his regular work. He must fulfil all the requirements exacted from regular students in such course.

Application for each special examination, except as provided below, must be filed at the office of the Registrar at least one week before the examination is to be taken, and in September and May at least one week before the first day of the respective examination period (in 1912-13 not later than Monday, September 9, and Thursday, April 24, respectively). For later application an additional fee of \$5 for any examination or series of examinations will be charged. Applications must be made on blanks (one for each course) to be obtained from the Registrar.

During the academic year students will be held responsible for the receipt of reports and other official communications sent to them at the coat room in University Hall. During the summer vacation they will be held responsible for the receipt of such communications sent to their home address as given on their registration blank for the preceding academic year.

#### Admission on Probation

Every first-year student admitted conditionally will be held under probation during the first half-year of residence. So far as possible students on probation are given the opportunity in Columbia College or in the Department of Extension Teaching to make good their deficiencies. Not later than the end of this period, the Dean, on the basis of reports from the head of each department in which the student is registered, will decide whether he shall be admitted to full standing, have his period of probation extended, or be dropped from the roll. The mark of 7 or higher, obtained in any subject at the end of the first half-year of residence, will be regarded as removing an entrance condition in that subject, unless the condition was incurred in a part of the subject not directly involved in the work of the course. Any condition not so removed must be satisfied by formal examination.

#### Equipment and Collections

Detailed information as to the laboratories, museums, collections, libraries, and other facilities for study and research will be found in the departmental statements as follows: Chemistry, page 71. Civil and Sanitary Engineering, page 77. Electrical Engineering, page 97. Geology, page 105. Mechanical Engineering, page 126. Metallurgy, page 128. Mineralogy, page 130. Mining, page 131. Physics, page 150.

#### SUMMARY OF PROFESSIONAL COURSES OF STUDY

NOTE: Detailed tabular arrangements of each year of these courses will be found in the *Announcement of the School of Mines, Engineering, and Chemistry*. (See also Departmental Statements, pages 56-169.)

## Uniform Curriculum for the First Year

The curriculum for the first year of the four-year courses leading to the degrees of Engineer of Mines, Metallurgical, Civil, Electrical, Mechanical, and Chemical Engineer and Chemist is the same in every respect and the student entering the first-year class need not declare which course he will follow until the beginning of the second year, when he will have the advantage of the experience gained during the first year's work, where uncertainty exists respecting inclination or natural bent.

As will be seen in the tabular statement given below, this first year is mainly devoted to a thorough grounding in mathematics, physics, and chemistry, the three fundamental subjects which form the indispensable basis for all broad and successful engineering work, not only in the remaining years of the course, but throughout the entire professional career. Specialization begins to some extent in the second year and becomes more marked in the third and fourth years.

The class is arranged in two divisions, Division B completing Engineering, Drafting and Descriptive Geometry in the first term, while Division A is completing General Inorganic Chemistry and Qualitative Analysis, the two divisions reversing the operation in the second term. This plan secures greater concentration of work; it facilitates the transfer of students to advanced standing from other institutions; and it enables well prepared students entering in February and taking advantage of the University Summer Session to catch up with their class by the following autumn.

To secure the most effective individual instruction the class is also divided for quizzes and recitations into six, eight, and twelve sections.

<i>First Half-Year</i>		Hours per week	
		Class	Lab.
Drafting 1	Engineering Drafting	1	14
Drafting 3	Descriptive Geometry	3	
Mathematics 1	Algebra	2	
Mathematics 3	Analytical Geometry	3	
Mechanics 1	Elementary Mechanics	2	2
Phys. Educ. A	Gymnasium	5	
Physics 3	Mechanics, Wave Motion, and Heat		
Total		16	16
<i>Second Half-Year</i>			
Civil Eng. 2	Theory of Surveying	2	13
Chemistry 4	General Inorganic Chemistry	3	
Chemistry 62	Qualitative Analysis	4	
Mathematics 64	Calculus	5	
Phys. Educ. A	Gymnasium	5	2
Physics 4	Heat and Light		
Total		19	15
SUMMER WORK: Civil Eng. 15S. Five weeks of surveying practice.			



## Leading to the Degree of Engineer of Mines

The four-year course leading to the degree of Engineer of Mines is intended primarily to train men to undertake the development of mineral properties, the design and construction of mine plants, and to manage mines. The course includes training in metallurgy. It is necessarily a broad one, comprising a wide range of studies in pure and applied science, and for this reason is frequently taken by students desiring a general scientific training.

The subjects most emphasized in this course are mining, metallurgy, geology, and engineering.

Metallurgy requires knowledge of inorganic and applied chemistry, qualitative and quantitative analysis, and assaying.

Geology must carry with it preliminary training in crystallography, mineralogy, and petrography.

1 SECOND YEAR			2 THIRD YEAR			FOURTH YEAR		
First Half-Year								
Courses	Class	Lab.	Courses	Class	Lab.	Courses	Class	Lab.
Civil Eng. 23	2	3	Civil Eng. 53	5	3	Elect. Eng. 75	1	3
Drafting 7		3	Civil Eng. 53		3	Geology 101		
Geology 5	3		Geology 105	3		Mech. Eng. 17	2	
Mathematics 65	5		Mech. Eng. 13	3		Metallurgy 101,		
Mineralogy 1	3	6	Metallurgy, 81	2	9	111	3	
Phys. Educ. B		2	Mining 51	3		Metallurgy 131,		
Physics 5	5					141	2	
						Mining 71	3	
						Mining 73	1	
						Mining 75		12
						Mining 81	4	
						Mining 91	2	
Total hours	18	14		16	15		18	15
Second Half-Year								
Chemistry 66	3	12	Civil Eng. 54		3	Civil Eng. 76	2	
Chemistry 82	3		Civil Eng. 64	1	3	Geology 16		
Elect. Eng. 2	2		Elect. Eng. 4	2		Geology 110	2	
Geology 6	3		Elect. Eng. 72	1	3	Mech. Eng. 74	2	
Mechanics 102	5		Geology 4		3	Metallurgy 72		2
Mineralogy 2	3	3	Geology 106	3		Metallurgy 122	3	
Phys. Educ. B		2	Mech. Eng. 14	3		Mining 56	3	
			Mech. Eng. 80	1	3	Mining 72	3	
			Mineralogy 6		3	Mining 75		12
			Mining 52	2		Mining 80	1	
			Mining 54	3		Mining 82		3
						Mining 94	2	
Total hours	19	17		16	18		18	17

For significance of course numbers see pages 56-168.

<sup>1</sup> Summer work: Civil Engineering 27s and 28s (eight weeks).

<sup>2</sup> Summer work: Field work, Mining, Metallurgy, and Geology (nine weeks).



Engineering in all its branches needs a fundamental knowledge of mathematics, physics, mechanics, and thermodynamics. The proper design and construction of mining plants involve the study of certain branches of civil engineering, and the many and increasing applications of machinery to mining make it necessary to give much time to the theory and practice of mechanical and electrical engineering.

### Leading to the Degree of Metallurgical Engineer

This course, which covers four years, is intended for those who expect to follow metallurgical work and become trained metallurgists in any of the branches of the profession. For the first two years much attention is paid to a thorough training in fundamental subjects, especially in mathematics, chemistry, physics, geology, mineralogy, and preliminary courses in engineering. In the third year instruction in metallurgy begins both by lectures and in the laboratories, while courses in engineering,

1 SECOND YEAR			2 THIRD YEAR			FOURTH YEAR		
First Half-Year								
Courses	Class	Lab.	Courses	Class	Lab.	Courses	Class	Lab.
Civil Eng. 23	2	3	Civil Eng. 53	5	6	Chemistry 121	3	
Drafting 7		3	Geology 105	3		Elect. Eng. 75	1	3
Geology 5	3		Mech. Eng. 13	3		Mech. Eng. 17	2	
Mathematics 65	5		Metallurgy 81	2	9	Metallurgy 77		3
Mineralogy 7	3	3	Metallurgy 101	1		Metallurgy 131	1	
Phys. Educ. B		2	Metallurgy 111	2		Metallurgy 141	1	
Physics 5	5					Metallurgy 151	2	
Physics 43		6				Metallurgy 171		9
						Metallurgy 175	1	
						Mining 73	1	
						Mining 81	4	
						Mining 91	2	
Total hours	18	17		16	15		18	15
Second Half-Year								
Chemistry 66	3	12	Civil Eng. 64	1	3	Chemistry 122	3	
Chemistry 82	3		Civil Eng. 76	2		Mech. Eng. 72	2	3
Elect. Eng. 2	2		Elect. Eng. 72	1	3	Mech. Eng. 76	1	3
Geology 6	3		Elect. Eng. 104	2		Metallurgy 118	1	
Mechanics 102	5		Geology 4		3	Metallurgy 123	1	
Mineralogy 8	3	3	Geology 106	3		Metallurgy 138	1	
Phys. Educ. B		2	Mech. Eng. 14	3		Metallurgy 148	1	
			Mech. Eng. 60		3	Metallurgy 158	1	
			Metallurgy 122	3		Metallurgy 172		6
			Mineralogy 6		3	Mining 80	1	
			Mining 54	3		Mining 82		3
						Mining 94	2	
Total hours	19	17		18	15		14	15

For significance of course numbers see pages 56-168.

<sup>1</sup> Summer courses: Civil Engineering 27s (five weeks); Civil Engineering 23s (three weeks).

<sup>2</sup> Summer courses: Metallurgy 66s (three weeks); Metallurgy 64s (three weeks); Geology 112s (one week).

especially mechanical engineering, chemistry, and geology, are also provided for. The fourth year is devoted largely to advanced courses in metallurgy, and great stress is laid on giving, by laboratory work, familiarity with difficult high-temperature conditions of metallurgy, skill in microscopy and pyrometry, and training in execution and in the interpretation of the results developed. At the same time attention is devoted to the higher branches of engineering and chemistry and to important courses in mining engineering which are considered necessary.

In the summer schools, carefully arranged courses in general surveying, in railroad work, geological field work, and visits to metallurgical works are provided for. In the six weeks' summer courses at metallurgical works, the students are required to carefully study processes, make dimensioned sketches of furnaces and mills, and by observation and instruction are given a thorough understanding of metallurgical operations as conducted at the present time.

#### Leading to the Degree of Civil Engineer

The courses of study given in the Department of Civil Engineering are so formulated as to constitute broad educational training of a profes-

1 SECOND YEAR			2 THIRD YEAR			FOURTH YEAR		
First Half-Year								
Courses	Class	Lab.	Courses	Class	Lab.	Courses	Class	Lab.
Botany 7	1	3	Astronomy 105	3		Civil Eng. 75	4	
Drafting 5		3	Civil Eng. 21	1		Civil Eng. 85	2	3
Mathematics 65	5		Civil Eng. 51	2	3	Civil Eng. 87	2	3
Mech. Eng. 13	3		Civil Eng. 53	5	3	Civil Eng. 89	3	3
Mineralogy 5	2	2	Civil Eng. 53		3	Civil Eng. 97	2	
Mining 53	2		Civil Eng. 59	2		Elect. Eng. 5	1	
Phys. Educ. B		2	Civil Eng. 61	2	3	Elect. Eng. 75	1	3
Physics 5	5		Mech. Eng. 17	2		Mech. Eng. 41	1	3
Physics 43		3	Mech. Eng. 77	1	3	Mech. Eng. 63		3
Shopwork 15		3						
Total hours	18	16		18	15		16	18
Second Half-Year								
Chemistry 82	3		Astronomy 106	1	3	Civil Eng. 88	2	3
Drafting 6		3	Civil Eng. 52	3	3	Civil Eng. 90	3	3
Drafting 8		6	Civil Eng. 54		3	Civil Eng. 94	2	
Elect. Eng. 2	2		Civil Eng. 58	3	3	Civil Eng. 100	3	6
Geology 18	3	*3	Civil Eng. 62	2	3	Elect. Eng. 112	2	
Mech. Eng. 14	3		Elect. Eng. 4	2		Law 2	2	
Mechanics 102	5		Elect. Eng. 72	1	3	Mech. Eng. 46	3	
Metallurgy 134	2		Mech. Eng. 18	2				
Phys. Educ. B		2	Mech. Eng. 78	3				
Physics 44		3						
Shopwork 16		3						
Total hours	18	18		17	18		17	12

For significance of course numbers see pages 56-168.

\* Saturday afternoon during April and May, equivalent 1 hour.

1 Summer work: Civil Engineering 258 (five weeks).

2 Summer work: Civil Engineering 268; Astronomy 107s (five weeks); Civil Engineering 71s (four weeks).

sional character for students intending to follow the practice of civil engineering or such other affiliated callings as may be based more or less upon the various branches of civil engineering. These courses of study can be taken more advantageously if the student has had a preliminary general training equivalent to that of an ordinary college course, although that condition is not a requisite. Through these courses of study there is set forth a thorough grounding in the fundamental principles of engineering science as the first essential, supplemented, however, by constant exercises in the application of those fundamental principles to all the operations of the civil engineer, involving structures, machines, and processes connected with the adaptation and transmission of power for industrial and other purposes.

### Sanitary Engineering

The course in Sanitary Engineering is a differentiation from the regular course in Civil Engineering and naturally leads, therefore, to the same degree. The first year is identical with the first year of other engineering courses, while the second year is almost identical with the regular second-year work of the course in Civil Engineering. The special extensions in

1 SECOND YEAR			2 THIRD YEAR			FOURTH YEAR		
First Half-Year								
Courses	Class	Lab.	Courses	Class	Lab.	Courses	Class	Lab.
Botany 7	1	3	Zoölogy			Civil Eng. 55		6
Chemistry 65	2	6	Bacteriology } 101	2	6	Civil Eng. 57 }	2	
Drafting 5		4	Chemistry 41	2	3	Civil Eng. 57 }		
Math. 65	5		Civil Eng. 21	1		Civil Eng. 75	4	
Mech. Eng. 13	3		Civil Eng. 51	2	3	Civil Eng. 85	2	
Mineralogy 5	2	2	Civil Eng. 53	5	3	Civil Eng. 87	2	3
Phys. Educ. B		2	Civil Eng. 53		3	Civil Eng. 89	3	3
Physics 5	5		Civil Eng. 59	2		Civil Eng. 97	2	
			Civil Eng. 61	2		Mech. Eng. 17	2	
						Mech. Eng. 63		3
Total hours	18	17		16	18		17	15
Second Half-Year								
Chemistry 82	3		Chemistry 42	2		Civil Eng. 90	3	3
Chemistry 92a			Civil Eng. 52	3	3	Civil Eng. 94	2	
Drafting 8		2	Civil Eng. 54		3	Civil Eng. 96	3	
Elect. Eng. 2	2		Civil Eng. 58	3	3	Civil Eng. 100		6
Geology 18	3	*3	Civil Eng. 62	2	3	Elect. Eng. 76	1	3
Mechanics 102	5		Elect. Eng. 4	2		Law 2	2	
Mech. Eng. 14	3		Elect. Eng. 72	1	3	Mech. Eng. 76	1	3
Metallurgy 134	2		Mech. Eng. 78	3		Mech. Eng. 82	3	
Phys. Educ. B		2						
Physics 44		6						
Shopwork 16		3						
Total hours	18	14		16	15		15	15

For significance of course numbers see pages 56-168.

\* April and May—Geology, equivalent to 1 hour.

<sup>1</sup> Summer work: Civil Engineering 268 (five weeks).

<sup>2</sup> Summer work: Civil Engineering 265 (five weeks); Civil Engineering 715 (four weeks).

sanitary work are developed in the third and fourth years. It will be found that these sanitary subjects are set forth so as to cover in a thorough and comprehensive way those special fields occupied by the sanitary engineer of the present day. They include the sanitary treatment of water supplies and sewage with special work extended both by lectures and laboratory work into biology and bacteriology standard laboratory methods in the sanitary administration of public water supplies, drainage, heating, and ventilation and the general principles of sanitary science, public health, and hygiene. These sanitary specialties are of advanced character, covering the latest investigations in such special work as daily bacterial tests of potable water for public purposes, the extermination of mosquitoes and other disease-carrying insects, the improvement of public health conditions found in cities and towns, the drainage and sanitary treatment of lands and the sanitary administration of buildings and industrial establishment liable to create nuisances. A graduate, therefore, of this course is qualified to enter the advanced practice of sanitary engineering in all its special fields.

#### Leading to the Degree of Electrical Engineer

The objects for which the regular four-year course in Electrical Engineering is designed and the education which it is intended to give are fully set forth in the *Announcement*.

1 SECOND YEAR			2 THIRD YEAR			FOURTH YEAR		
First Half-Year								
Courses	Class	Lab.	Courses	Class	Lab.	Courses	Class	Lab.
Chemistry 65	2	6	Civil Eng. 53	5	3	Chemistry 183	2	3
Drafting 5		3	Civil Eng. 53		3	Elect. Eng. 103	3	
Mathematics 65	5		Civil Eng. 77	2		Elect. Eng. 105	3	
Mech. Eng. 13	3		Elect. Eng. 101	1		Elect. Eng. 109	1	
Phys. Educ. B		2	Elect. Eng. 173	2	6	Elect. Eng. 175	1	6
Physics 5	5		Mech. Eng. 17	2		Elect. Eng. 177	1	6
Physics 43		3	Mech. Eng. 41	1	3	Mech. Eng. 53	2	
Physics 105	2		Mechanics 105	2		Mech. Eng. 77	1	3
Shopwork 13		3	Mechanics 107	2		Mechanics 109	3	
Total hours	17	17		17	15		17	18
Second Half-Year								
Chemistry 82	3		Economics 2	3		Elect. Eng. 54	2	3
Drafting 6		3	Elect. Eng. 52	2	3	Elect. Eng. 98		
Drafting 8		6	Elect. Eng. 104	3		Elect. Eng. 106	2	
Elect Eng. 2	3		Elect. Eng. 174	1	6	Elect. Eng. 108		1 1/2
Mech. Eng. 14	3		Mech. Eng. 18	2		Elect. Eng. 110	1	
Mechanics 102	5		Mech. Eng. 36		6	Elect. Eng. 112	2	
Metallurgy 134	2		Mech. Eng. 76	1	3	Elect. Eng. 176	1	8
Phys. Educ. B		2	Mechanics 108	3		Mech. Eng. 56	1	
Physics 44		3				Mech. Eng. 60		1 1/2
Shopwork 14		3				Mech. Eng. 72	2	3
						Mechanics 110	4	
						Phys. 52	1	
Total hours	16	17		15	18		16	17

For significance of course numbers see pages 56-168.

<sup>2</sup> Summer work: Summer memoir.

<sup>1</sup> Summer memoir.



The first two years of the course are devoted to the fundamental subjects, including mathematics, physics, chemistry, mechanics, drawing, and certain electrical and mechanical engineering subjects which are elementary or introductory in character.

These fundamental and introductory subjects are intended to lay a broad and substantial foundation upon which the more specialized professional instruction of the third and fourth years is based. Even in these later years theoretical subjects, such as thermodynamics and electrical theory, are included and given most careful attention.

#### Leading to the Degree of Mechanical Engineer

The first two years of this course are devoted to essential preparatory and fundamental subjects, mathematics, chemistry, physics, analytical mechanics, and drawing, which are co-ordinated with kinematics, elementary design, shopwork, and the elements of electrical and steam engineering. In the third year there are developed the basic principles of thermodynamics, resistance of materials, and hydraulics, which are fixed

1 SECOND YEAR			2 THIRD YEAR			FOURTH YEAR		
First Half-Year								
Courses	Class	Lab.	Courses	Class	Lab.	Courses	Class	Lab.
Drafting 7		3	Civil Eng. 53	5	3	Elect. Eng. 103	2	
Mathematics 65	5		Elect. Eng. 73		3	Elect. Eng. 105	2	
Mech. Eng. 11	3		Elect. Eng. 101	2		Mech. Eng. 19	3	6
Mech. Eng. 35		3	Mech. Eng. 17	2		Mech. Eng. 21	4	3
Mech. Eng. 59	2	3	Mech. Eng. 31	1	3	Mech. Eng. 25	2	3
Phys. Educ. B		2	Mech. Eng. 39	3	3	Mech. Eng. 33	2	3
Physics 5	5		Mechanics 105	2		Mech. Eng. 45	3	
Physics 43		3	Shopwork 11		6			
Shopwork 1		6						
Total hours	15	20		15	18		18	15
Second Half-Year								
Chemistry 82	3		Civil Eng. 54		3	Elect. Eng. 76	1	3
Elect. Eng. 2	2		Civil Eng. 78	2		Economics 2	3	
Mech. Eng. 12	3	3	Elect. Eng. 104	3		Law 2	3	
Mech. Eng. 36		3	Mech. Eng. 18	2		Mech. Eng. 20	3	6
Mechanics 102	5		Mech. Eng. 32	1	3	Mech. Eng. 26	2	6
Metallurgy 134	2		Mech. Eng. 40		9	Mech. Eng. 50	3	
Phys. Educ. B		2	Mech. Eng. 54	2		Mech. Eng. 52	3	
Physics 44	3		Mech. Eng. 64	2				
Shopwork 2	3		Mech. Eng. 66	1				
Shopwork 12		6	Mech. Eng. 70	2				
			Mech. Eng. 60 }					
			Metallurgy 156 }	1	3			
Total hours	15	20		16	18		18	15

For significance of course numbers see pages 56-168.

<sup>1</sup> Summer work: Shopwork 105, 125 hours in College shops; Mech. Eng. 94s, six weeks' practical work in shops and drafting rooms of manufacturing establishments, with report: a total of nine weeks.

<sup>2</sup> Summer work: Mech. Eng. 96s (six weeks' practical experience in power plant with report).



in the mind of the student by drill in the drafting room by design courses, in the laboratory by experiments and tests, and in class by analysis of standard mechanical and electrical machinery. The fourth year is devoted to a detailed treatment of gas and steam engine design, standard water turbine characters, and the essential relations between units constituting power plants and factories. Special attention is here paid to economics of mechanical engineering by courses in industrial law, economics, and works management. Throughout the course the aim is to develop clear conceptions of underlying principles, habits of independent thought and orderly mental procedure applicable to any sort of mechanical engineering problems rather than to the memorization of isolated facts. The training given not only fits the student to take up the design of machinery and the perfection of processes of doing things by mechanical means, but also to take ultimately a leading place in the management of the manufacturing and transportation industries.

#### Leading to the Degree of Chemical Engineer

The course in chemical engineering, as will be seen, is designed to educate chemists with a sufficient amount of engineering to fit them to take

<sup>1</sup> SECOND YEAR			<sup>2</sup> THIRD YEAR			FOURTH YEAR		
<i>First Half-Year</i>								
Courses	Class	Lab.	Courses	Class	Lab.	Courses	Class	Lab.
Chemistry <b>41</b>	2	12	Civil Eng. <b>53</b>	5	3	Chemistry <b>121</b>	3	6
Chemistry <b>81</b>	3		Chemistry <b>83</b>	3	Chemistry <b>171</b>	2		
Chemistry <b>163</b>	3		Chemistry <b>101</b>	2	Chemistry <b>197</b> }	5		
Mathematics <b>65</b>	5		Chemistry <b>149</b>	2	Mech. Eng. <b>97</b> }	2		
Mineralogy <b>15</b>	3		Mech. Eng. <b>11</b>	3	Mech. Eng. <b>17</b>	2		
Phys. Educ. <b>B</b>	5	3	Mech. Eng. <b>59</b>	2	3	Mech. Eng. <b>37</b>	1	6
Physics <b>5</b>					Mech. Eng. <b>77</b>	1	3	
Physics <b>43</b>					Metallurgy <b>101,</b> <b>111</b>	3		
						Metallurgy <b>131</b>	1	
Total hours	18	20		17	15		18	15
<i>Second Half-Year</i>								
Chemistry <b>42</b>	2	12	Civil Eng. <b>54</b>	2	3	Chemistry <b>88</b>	3	9
Chemistry <b>82</b>	3		Civil Eng. <b>73</b>		Chemistry <b>122</b>	3		3
Chemistry <b>164</b>	3		Chemistry <b>84</b>		Chemistry <b>184</b>	2		3
Elect. Eng. <b>2</b>	2		Chemistry <b>102</b>		Chemistry <b>198</b>	3		
Mechanics <b>102</b>	5		Elect. Eng. <b>4</b>		Mech. Eng. <b>18</b>	2		
Mineralogy <b>16</b>	3	Elect. Eng. <b>72</b>	1	3	Mech. Eng. <b>76</b>	1	3	
Phys. Educ. <b>B</b>	2	Law <b>2</b>	2		Metallurgy <b>122</b>	3		
Physics <b>44</b>	3	Mech. Eng. <b>12</b>	3	3				
		Metallurgy <b>182</b>	2	6				
Total hours	15	20		17	15		14	18

For significance of course numbers see pages 56-168.

<sup>1</sup> Summer work: Chemistry 80a, 1 week; Shopwork 18s (three weeks in June).

<sup>2</sup> Summer work: Chemistry 80b, visits to industrial plants, 2 weeks; Chemical factory work with memoir (six weeks).

charge of chemical works which depend largely on the use of machinery. This requires a knowledge of mechanical engineering, electrical engineering, hydraulics, mechanical drawing, shopwork, etc., as well as a thorough knowledge of chemistry in all its branches.

### Leading to the Degree of Chemist

The regular four-year course of instruction is designed for the education of professional chemists who intend to devote their lives to the practice of this profession, either as teachers in colleges and scientific schools, after further preparation, or as chemists or research chemists in manufacturing and other industrial enterprises.

The course in chemistry includes not only all branches of theoretical, analytical, and industrial chemistry, but also collateral sciences, such as mathematics, mechanics, physics, mineralogy, metallurgy, mechanical and electrical engineering, and drawing, which have been found by ex-

1 SECOND YEAR			2 THIRD YEAR			FOURTH YEAR		
First Half-Year								
Courses	Class	Lab.	Courses	Class	Lab.	Courses	Class	Lab.
Chemistry 41	2	12	Chemistry 83	3	6	Chemistry 7	2	
Chemistry 81	3		Chemistry 101	2		Chemistry 23		
Chemistry 163	3		Chemistry 121	3		Chemistry 93		
Mathematics 65	5		Chemistry 171	2		Chemistry 95		
Mineralogy 15	5		Chemistry 175	2		Chemistry 143		
Phys. Educ. B		Chemistry 183	2	Chemistry 167				
Physics 5				Chemistry 173				
					Chemistry 89		3	
					Chemistry 141	5	12	
					Metallurgy 101,			
					111	3		
					Metallurgy 131	1		
Total hours	18	17		14	18		11	15
Second Half-Year								
Chemistry 42	2	12	Chemistry 84	3	9	Chemistry 142	5	15
Chemistry 82	3		Chemistry 88			Metallurgy 122	3	
Chemistry 164	3		Chemistry 102	2		Thesis—	2	
Elect. Eng. 2	2		Chemistry 122	3		Chemistry 8		
Mechanics 102	5		Chemistry 182	2		Chemistry 24		
Mineralogy 16	3	2	Mineralogy 10	2	3	Chemistry 94		
Phys. Educ. B					Chemistry 96			
					Chemistry 144			
						Chemistry 168		
						Chemistry 174		
						Chemistry 176		
Total hours	15	17		12	18		10	15

For significance of course numbers see pages 56-168.

<sup>1</sup> Summer work: Chemistry 80a, memoir.

<sup>2</sup> Summer work: Chemistry 80b, memoir.

perience to be required by the professional chemist. It is the intention to provide the graduate not only with a thorough knowledge of the principles and practice of chemistry in all its branches, but with such a broad and liberal education in the collateral sciences as will prepare him for every demand that will be likely to be made upon him in connection with his profession or in the pursuit of investigation.

## REGISTER OF STUDENTS

### Schools of Mines, Engineering and Chemistry

#### FOURTH YEAR—CLASS OF 1913

##### MINING ENGINEERING

ABRAHAMS, ALEXANDER ISIDORE, A.B. 1911.....	New York City
BEEHLER, GEORGE R.....	Philadelphia, Pa.
BONSIB, RAY MYRON, A.B. 1910, A.M. 1911 Indiana.....	Minneapolis, Minn.
BONSIB, ROY SAMUEL, A.B. 1910, A.M. 1911 Indiana.....	Minneapolis, Minn.
BROWNING, CARLTON PERKINS.....	Norwich, Conn.
BURROUGHS, AMBROSE HAMMET, JR.....	Irvington-on-Hudson, N. Y.
CARUTHERS, A. WAYNE.....	Irwin, Pa.
CHOW, KAI-CHI.....	Shanghai, China
CLAGHORN, JAMES L.....	Tacoma, Wash.
GATCH, NELSON BURNES.....	St. Louis, Mo.
GOLDSTEIN, DAVIS.....	Passaic, N. J.
GRANT, WHEADON MARTIN.....	Birmingham, Ala.
HESS, KARL F.....	New York City
HICKEY, LOUIS W., A.B. Harvard 1910.....	Dorchester, Mass.
HOYT, DONALD CHESTER, A.B. Michigan 1909.....	Chillicothe, Ohio
HUBBARD, DWIGHT GERALD.....	New York City
KEARNEY, GEORGE SYLVESTER.....	Minneapolis, Minn.
KURZ, JOHN B.....	New York City
LUNN, ROBERT, JR.....	Jersey City, N. J.
MCLOCHLIN, GEORGE GRAHAM.....	New York City
MANÉS, RENÉ ACHILLES FRANCIS.....	New York City
MEISSNER, CLARENCE EDWARD.....	New York City
MOORE, DUDLEY MARTIN.....	Islip, N. Y.
MORRILL, ALBERT H.....	Chicago, Ill.
NARAVANE, SANKAR GOVIND.....	Poona, India
OFFICER, HERBERT GEORGE, B.S. 1911, A.M. 1911 South Carolina.....	Eddy Lake, S. C.
PATCHELL, FREDERICK JAMES.....	Washington, D. C.
PINEDA, ROSENDO, JR.....	Mexico City, Mexico
PROCHAZKA, GEORGE A., JR.....	New York City
PYNE, WALTER.....	New York City
RICHTER, CHARLES.....	New York City
RUGEN, OTTO N.....	New York City
SALSBURY, MILTON.....	New York City
SCHATTINGER, GEORGE FRANCIS.....	Denver, Colo.
SCHMIDT, WILLIAM C., JR.....	New York City
SUN, HYIEN-WAY.....	Hangchow, China
SUVERKROP, EDWARD, ALBERT, JR.....	New York City
TACKMANN, HENRY.....	New York City
TRISCHKA, CARL.....	New York City
WAGNER, FRANK H.....	Buffalo, N. Y.
WISE, ALFRED LEO.....	New York City

## CIVIL ENGINEERING

WOLFLIN, HUGH MAUPIN, B.S. Arizona 1907.....	Redlands, Calif.
ARONIN, ISIDOR.....	New York City
CARMEL, WILLARD J.....	New York City
CHEATHAM, JAMES LESLIE.....	Henderson, Ky.
COVEY, PAUL BISSELL.....	Yonkers, N. Y.
DI STASIO, JOSEPH.....	New York City
DUFFIE, ARCHIBALD DUNCAN.....	Bantam, Conn.
FAIRBAIRN, ROBERT LE FEVRE, A.B. 1911.....	New York City
FINDLAY, ELWIN H.....	New York City
FISH, GILBERT DUDLEY.....	New York City
GENUNG, GEORGE ROY.....	New York City
GREACEN, JOHN LYLE.....	New York City
GUIBERT, JOHN CLAIRE NORRIS.....	New York City
HERNANDEZ, JOHN ALBERT.....	Havana, Cuba
IMMERMAN, HARRY TREADWELL.....	New York City
KATZENBERG, SAMUEL KERMIT.....	New York City
KIRCHGRABER, EARLE HAMLIN.....	Pine Bluff, Ark.
KORN, MAX HARRY.....	Hackensack, N. J.
LATHROP, JOHN EARLE.....	Yonkers, N. Y.
LIPARI, ATTILIO FELIX.....	New York City
LOMMEL, GEORGE L.....	New York City
McLOUGHLIN, FREDERIC OZANAM XAVIER, B.S. C. C. N. Y. 1909.....	New York City
MALLOY, JOHN PATRICK.....	New York City
MANDELL, SOLON B.....	New York City
MARX, RAYMOND M.....	New York City
MILLER, FREDERICK.....	New York City
NEUMAN, DAVID LEONARD.....	New York City
PATTERSON, JOHN ERI.....	Kansas City, Mo.
PEET, GERALD D.....	Cortland, N. Y.
PHILLIPS, JACQUIN.....	New York City
RADIGAN, FRANCIS JOSEPH.....	Jersey City, N. J.
ROBERTS, ELMER.....	New York City
ROEMERMANN, ADOLPH.....	New York City
SMILLIE, RALPH, A.B. Yale 1909.....	New York City
SMITH, JAY LEE.....	New York City
SPENCER, FREDERICK BURR, A.B. 1911.....	New York City
STEINBRUCH, WALTER.....	New York City
STRANG, REGINALD BARTLETT.....	New York City
SUN, MAN.....	Canton, China
TODD, CARLOS NICOLAS.....	Havana, Cuba
TORBERG, GERARD RUDOLF.....	New York City

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## ELECTRICAL ENGINEERING

ARMSTRONG, EDWIN HOWARD.....	Yonkers, N. Y.
BURGI, HERMAN, JR.....	New York City
ERNST, MONTROSE.....	New York City
HALDEMAN, HAROLD WATSON.....	New York City
HAMILTON, BAXTER PERRY.....	New York City
KAUFMAN, LEWIS BERNHARD.....	New York City
KROLL, CORNELIUS.....	New York City
LANGLEY, RALPH HERBERT.....	New York City
MAPES, LELAND RUSSELL.....	Spring Valley, N. Y.
MOCK, FRANK C.....	New York City



## 262 SCHOOLS OF MINES, ENGINEERING, CHEMISTRY

RICHTER, HENRY.....	New York City
SAALBERG, HERMAN STERN.....	New York City
TRENOR, ALBERT DELAFIELD, M.E. Stevens 1911, M.S. Princeton 1912..	New York City
WALSH, JAMES ALOYSIUS.....	New York City
WHEELER, ROBERT A.....	New York City
WILSON, LE ROY.....	New York City

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### MECHANICAL ENGINEERING

AUGUSTINE, ADDISON E.....	New York City
BISSELL, ALBERT WEST.....	New York City
BLANCHARD, HAROLD F.....	New York City
BROMBACHER, MAX H. C., JR.....	New York City
COHEN, EDGAR FABIAN, B.S. C. C. N. Y. 1910.....	New York City
CONNER, B. FRANK, JR.....	New York City
COOK, HENRY PETTIGREW.....	New York City
DEMOREST, WILLIAM JENNINGS.....	New York City
EMMERT, JOHN BARRETT.....	New Bern, N. C.
EVANS, HERBERT W.....	New York City
GITHENS, THOMAS F., B.S. C. C. N. Y. 1909.....	New York City
GROSSBAUM, LOUIS, B.S. 1910.....	New York City
GUITÉRAS, JULIAN GEORGE.....	Yonkers, N. Y.
HAAREN, WILLIAM FREDERIC.....	New York City
HAYDEN, LLOYD FOWLER.....	White Plains, N. Y.
HIRT, EDWARD LOUIS.....	Yonkers, N. Y.
ISRAEL, ALBERT HERMAN.....	New York City
LEVKOWITS, ALBERT.....	New York City
MACCOULL, NEIL, JR.....	New York City
MACDERMOTT, STEWART SINCLAIR.....	New York City
ROBINSON, CHARLES R.....	St. Louis, Mo.
RUPRECHT, WALTER E.....	New York City
STONE, EDWIN WADSWORTH, B.S. 1911.....	New York City
SWALLOW, HOWARD JOHN.....	New York City
SYSKA, ADOLPH GUSTAVE.....	New York City

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### CHEMICAL ENGINEERING

BASSECHES, JOSEPH LAZARUS.....	New York City
BATES, JOHN SEAMAN, A.B. 1906, B.S. 1909 Acadia Univ..	Sackville, N. B., Canada
BLUMENTHAL, ALEXANDER SIMON.....	Maywood, N. J.
BURKHARD, WALTER EDWIN.....	Jersey City, N. J.
CHILDS, STERRY HUNT, B.S. 1911.....	New York City
DURKEE, MORRIS M.....	New York City
GINSBERG, ISMAR, B.S. 1911.....	New York City
HAYS, JOHN E., B.E. Vanderbilt 1909.....	Nashville, Tenn.
JABINE, THOMAS.....	Yonkers, N. Y.
MACLEAN, GORDON.....	New York City
McKNIGHT, WILLIAM ALBERT, B.S. Valparaiso 1910.....	New Kensington, Pa.
MAAS, LESTER WALLACK.....	New York City
MEYER, ABRAHAM PAUL.....	St. Louis, Mo.
PHILLIPSON, BRAINERD FISCHER.....	New York City
REVSON, RAPHAEL FRANK, B.S. Georgia 1910.....	Atlanta, Ga.
SCHULTZ, LOUIS CLAUDE.....	Florida, N. Y.
SCHWEIZER, JAMES ARMSTRONG.....	Watertown, N. Y.

SHEPARD, MORRIS GOODWIN.....Cortland, N. Y.  
 SPALTHOFF, WILLIAM D.....Forest Park, N. Y.  
 STRUTHERS, ROYDEN TITUS.....New York City  
 WILCOX, DANIEL APPLETON.....Garden City, N. Y.  
 [21]

## METALLURGY

BANGSER, WILLIAM.....Lebanon, Pa.  
 BLAUT, SAMUEL JOSEPH.....New York City  
 BLOW, ALLMAND MATTESON.....Ware Neck, Va.  
 HYDE, REED WARREN.....Joliet, Ill.  
 KOENIG, EDWARD HARRY.....New York City  
 McLAUGHLIN, WARNER, A.B. Harvard 1909.....New York City  
 O'DONNELL, ADRIAN VALENTINE.....New York City  
 WOODWORTH, SELIM E.....Berkeley, Calif.  
 [8]

## CHEMISTRY

BILHUBER, ERNEST A.....Maywood, N. J.  
 SACHS, ALBERT PARSONS.....New York City  
 [2]

## SANITARY ENGINEERING

APPLEBAUM, SAMUEL BERNARD, B.S. C. C. N. Y. 1910.....New York City  
 JACOBS, HAROLD H.....New York City  
 WEISS, HARRY.....New York City  
 [3]

## FOURTH YEAR—CLASS OF 1913

Mining Engineering.....	42
Civil “.....	40
Electrical “.....	16
Mechanical “.....	25
Chemical “.....	21
Metallurgy.....	8
Chemistry.....	2
Sanitary Engineering.....	3
Total.....	157

## THIRD YEAR—CLASS OF 1914

## MINING ENGINEERING

BARRETT, THEODORE HARVEY.....New York City  
 BIRD, HENRY EDGAR, JR.....Mt. Vernon, N. Y.  
 BRISTER, CHARLES MELVILLE, JR., B.S. Virginia Military Institute 1911.....  
 .....Petersburg, Va.  
 CORNELISSEN, JOHN.....Springfield, Mass.  
 DOWNING, GEORGE S.....Albany, N. Y.  
 EICHRODT, CHARLES WHARTON, A.B. Indiana 1911.....Indianapolis, Ind.  
 FEDERMAN, SAMUEL.....New York City  
 FOOTE, FREDERICK WILLIAM.....Englewood, N. J.  
 FOX, WALTER VICTOR.....New York City  
 GOLDMAN, PAUL.....New York City

GRIEVE, RICHARD PALMER.....	New York City
GROSS, LE ROY MAURICE.....	New York City
GRUNOW, WILLIAM RANALD, B.S. 1912.....	Waterbury, Conn.
HADSELL, IRVING W.....	New York City
KUPFERSTEIN, JOSEPH THOMAS.....	New York City
LEE, LELAND VANCE.....	Monterey, Mexico
LEINER, JOSEPH.....	New York City
MACCARTHY, CHARLES FRANKLIN.....	Denver, Colo.
MAMPEL, CHARLES J.....	New York City
MAUL, WILLIAM F.....	New York City
MILLER, JAMES S.....	Hoosick Falls, N. Y.
NELSON, NED EUGENE, B.S. Purdue 1907.....	Lowell, Ind.
O'DONNELL, ROBERT C.....	New York City
PATTERSON, GEORGE SCHROTER.....	Denver, Colo.
PULLEYN, JOHN WILLIAM, A.B. 1912.....	New York City
RADE, HENRY S., A.B. 1912.....	New York City
ROBERTS, EDWARD OLIVER.....	New York City
SCHRADER, FRANZ.....	New York City
SCHURMAN, GEORGE W.....	New York City
SEN, JANE SHI TSOO EN, B.S. Peking 1909.....	Ping Yuen, Kwei Chow, China
STEFFEN, GUSTAVE W.....	New York City
WILLIAMS, EDWARD INGHAM.....	New York City
WORK, JOHN CLINTON, Naval Architect Glasgow 1904.....	Oyster Bay, N. Y.
YABLICK, MAX.....	Newark, N. J.
ZIMMER, SIEGFRIED H.....	New York City

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## CIVIL ENGINEERING

ATKINSON, GUY.....	New York City
BOYLSTON, EDWARD JAMES, JR.....	New York City
BRAVERMAN, LEWIS.....	New York City
CASSIDY, JAMES CLARKE.....	New York City
CLEARY, CHARLES NORMAN.....	New York City
COHEN, ISAAC T., B.S. C. C. N. Y. 1912.....	New York City
CRAFT, LA VERNE R.....	New York City
CREAMER, WILCOX A.....	New York City
ENGLEBARDT, ISADORE J.....	New York City
FAIRBAIRN, RUSSELL ARNOLD, A.B. 1912.....	New York City
FRIEDMAN, WILLIAM.....	New York City
FURSTENWALDE, HENRY CURT, A.B. 1911.....	New York City
GRETSCH, HERBERT.....	New York City
KANNENGIESER, MAX.....	New York City
KAUFMAN, WILLIAM.....	Paterson, N. J.
KEMP, WILLIAM VAN ANTWERP, A.B. Williams 1911.....	New York City
KREFELD, WILLIAM JOHN.....	New York City
LAPIDUS, ARON.....	New York City
LICHTENSTEIN, LOUIS.....	New York City
LUNDBORG, HERBERT CLARENCE.....	New York City
MASON, HENRY H.....	New York City
MAZE, MONTGOMERY, JR.....	New York City
NACHT, VICTOR.....	New York City
NOSITZER, GEORGE.....	New York City
OHLSEN, WILLIAM C.....	New York City
QUATTLEBAUM, SELBY.....	Columbia, S. C.
RENSHAW, ALFRED.....	Noroton, Conn.

RICHARDSON, GEORGE WASHINGTON, JR.	New York City
ROBERTS, RICHARD BLEVIN, JR.	New York City
ROSENZWEIG, MORRIS.	New York City
SHAPIRO, RUBIN.	New York City
SLADE, ERNEST B.	New York City
STEVENS, H. CHESTER.	Passaic, N. J.
UNGARLEIDER, MAX EMANUEL.	New York City
ZILBERSHER, SAMUEL ISRAEL.	New York City

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## ELECTRICAL ENGINEERING

COBB, FRANCIS CUTTER.	St. Paul, Minn.
EILERS, HENRY.	Port Washington, N. Y.
ELSASSER, HENRY WOLFGANG, B.S. 1912.	New York City
FISHER, SYDNEY.	South Ockendon England
FOSTER, JOSEPH TURNER.	Jersey City, N. J.
GOLDSTEIN, WILLIAM MORRIS.	New York City
KOUKOL, CLEMENT J.	New York City
LUHRS, HARRY.	New York City
NOLTE, ALBRECHT CHARLES.	New York City
PADDOCK, LINCOLN, A.B. 1910.	New York City
RICE, ISAAC LEOPOLD, JR.	New York City
SCHNEIDER, LOUIS SEYMOUR.	New York City
SINCLAIR, CHARLES GOODWIN, JR.	Towaco, N. J.
SMITH, STANLEY W.	New York City
WALLACE, OTIS ALEXANDER.	New York City
WATERS, ARTHUR C.	Taunton, Mass.

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## MECHANICAL ENGINEERING

BEARD, JAMES THOMAS, JR., A.B. 1912.	New York City
DOYLE, WILLIAM L. H.	Buffalo, N. Y.
GARDNER, FRANCIS SALTUS, JR.	New York City
HARRIS, ROBERT WILLIAM.	New York City
HARVEY, WILLIAM JOHN.	New York City
JARECKIE, EUGENE ALBERT.	New York City
KOHLBUSCH, ARTHUR H.	New York City
KOLLER, MAX A.	New York City
LATHROP, THOMAS SPENCER.	Yonkers, N. Y.
PETERSEN, ARTHUR E.	Monmouth Beach, N. Y.
PIPEROUX, RENÉ P.	Jersey City Heights, N. J.
RAYENS, CHARLES ERWIN.	New York City
SCHMIDT, FRANCIS BERTRAM.	New York City
SENGSTAKEN, JOHN HENRY.	New York City
SHAW, JAMES J., JR.	White Plains, N. Y.
STEWART, JAMES ALEXANDER.	New York City
WILSON, WALTER J.	Bergenfield, N. J.

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## CHEMICAL ENGINEERING

ALEXANDER, JOSEPH J., B.S. C. C. N. Y. 1911.	New York City
BYRON, OSCAR.	Jersey City, N. J.
CHUN, YEN-SHON.	Changsha, China
CLOUD, CHARLES B.	Tyringham, Mass.

COHEN, MORTIMER J.....	New York City
DITTMER, JOSEPH CLAUDIUS.....	New York City
DRUCKER, SAMUEL.....	New York City
GERSHON, VICTOR.....	New York City
HARRISON, GEORGE ISIDORE.....	New York City
HENDERSON, HAROLD GOULD, JR., A.B. 1910.....	New York City
KIEFFER, KENNETH HALL.....	Bridgeport, Conn.
KIRSCHSTEIN, JULIUS.....	New York City
LANDMAN, EVERETT SOLOMON.....	New York City
MACDONALD, FRANCIS.....	New York City
MANDLE, HENRY H.....	New York City
MASSON, HENRY JAMES.....	New York City
O'KANE, ROBERT GUY.....	New York City
OLT, HENRY.....	New York City
SCHWARZ, MAURICE WESSEL.....	New York City
SEE, MILTON, JR.....	Mt. Vernon, N. Y.
STEIN, JEROME DAVID.....	New York City
TENNEY, DWIGHT.....	Montclair, N. J.
WOODWELL, CAROLUS S., B.S. 1912.....	East Hampton, Conn.
WURSTER, WILLIAM FREDERICK.....	New York City
ZIA, ZAU CHEE.....	Shanghai, China

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## METALLURGY

COLQUHOUN, WILLIAM WALLACE.....	Tunbridge Wells, England
KEMP, JAMES TAYLOR.....	New York City
MORSE, HENRY EASTMAN, B.S. California 1911.....	Berkeley, Calif.
OLDRIGHT, GEORGE LESLIE, B.S. Whitman College 1910.....	Anaconda, Mont.
QUINN, HERMAN.....	Great Neck, N. Y.
SADTLER, CHESTER BENJAMIN.....	Denver, Colo.
WOOD, ROY UDELL.....	New York City

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## CHEMISTRY

ERLICH, JACOB.....	New York City
GILBERT, FREDERICK BOYD.....	New York City
HARRIS, CLARENCE PEAVY.....	New York City
HERTZ, NORMAN C.....	Newark, N. J.
SIEGLER, LOUIS.....	New York City

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## SANITARY ENGINEERING

HAVENS, WILLIAM WESTERFIELD.....	New York City
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## THIRD YEAR—CLASS OF 1914

Mining Engineering.....	35
Civil ".....	35
Electrical ".....	16
Mechanical ".....	17
Chemical ".....	25
Metallurgy.....	7
Chemistry.....	5
Sanitary Engineering.....	1

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 Total..... 141



## SECOND YEAR—CLASS OF 1915

## MINING ENGINEERING

ARMSTRONG, JOSEPH WILLIAM.....	New York City
BANKS, REGINALD MARSH.....	Boonton, N. J.
BEATTY, RUSSELL LAWRENCE.....	New York City
BISSELL, KARL HAUCK.....	New York City
BOHLIN, HOWARD GRENVILLE.....	Ridgefield Park, N. J.
BRANDENBURG, HARRY.....	New York City
CLAGHORN, D. MONTGOMERY.....	Tacoma, Wash.
COBDEN, PHILIP EDWARD.....	Larchmont Manor, N. Y.
COOPE, GEORGE FREDERICK.....	Douglaston, N. Y.
DJEVAD, EYOUNB, B.S. 1912.....	Constantinople, Turkey
KLEIN, KARL F.....	New York City
LEE, TSING LUNG.....	Siongshon, Hunan, China
LIVINGSTON, WILLIAM SMITH, JR.....	New York City
MARGON, SOLOMON.....	New York City
ORMSBEE, RANDALL HOLDEN.....	El Paso, Texas
PELL, VAN DYNE.....	New York City
VOGEL, OSCAR M.....	Cerro de Pasco, Peru
WELSH, FRANCIS DE SALES.....	South Amboy, N. J.
WRIGHT, FREDERICK SYLVESTER.....	Belt, Mont.

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## CIVIL ENGINEERING

ARCE, JOSÉ MARIA.....	Santo Domingo, Costa Rica
BELKNAP, BENJAMIN HAROLD.....	Leonia, N. J.
BENSON, REYNOLDS.....	New York City
BORSUK, ROBERT.....	New York City
BOWERS, STEWART W.....	New York City
BOYLE, CORNELIUS A.....	New York City
BROPHY, FRANCIS PATRICK.....	Yonkers, N. Y.
BUNCKE, HARRY JACOB.....	Whitestone, N. Y.
CARNELLI, CHARLES MICHAEL.....	New York City
CARROLL, JOHN JOSEPH.....	North Pelham, N. Y.
CONTRERAS, CARLOS.....	Mexico City, Mexico
VON DEESTEN, ARTHUR PETER.....	Hoboken, N. J.
DONNELLY, RICHARD V.....	New York City
EDEBOHLS, FRANK EDWARD.....	New York City
FUHRER, OSCAR ARPAD.....	New York City
GALB, WARREN DOBSON.....	Waterville, P. Q., Canada
GOLDMAN, MORRIS ROBERT.....	New York City
GREENBURG, LEONARD.....	New York City
GREENLEAF, DONALD LEAL, A.B. Williams 1912.....	Orange, N. J.
HOLLMANN, RICHARD F. (Senior Columbia College).....	New York City
IVERSON, MARTIN C.....	New York City
JOVESHOF, ARTHUR.....	New York City
KNOFF, SAMUEL H.....	New York City
KRAUS, WALTER F.....	New York City
LAUBSCHER, OSCAR PHILIP.....	Fort Wayne, Ind.
LEVY, JULIUS.....	New York City
DE LIMA, MARCELLO FRANCISCO.....	Sao Paulo, Brazil
McKENNA, JOHN ARTHUR.....	Westbury, N. Y.
MECHANIC, JACOB.....	New York City

MILLMAN, ISIDOR SAMUEL.....	New York City
MURRAY, EDWARD WILLIAM.....	New York City
O'REILLY, WILLIAM T.....	New York City
OLMSTED, CLARENCE E.....	Los Angeles, Calif.
ORTHEY, GEORGE FREDERICK.....	New York City
PADDOCK, EUGENE H., JR., A.B. 1912.....	New York City
PECK, JOHN SANFORD.....	New York City
PICCIRILLI, PASQUALE JOSEPH.....	New York City
PINCUS, SOL (Senior Columbia College).....	New York City
RAABIN, HERMAN DAVID.....	New York City
ROSALSKY, MURRAY DANIEL, B.S. C. C. N. Y. 1911.....	New York City
SCALES, SAMUEL BREWSTER.....	Jersey City, N. J.
SCHUMANN, CHARLES HENRY, JR.....	New York City
SCHWARTZ, ABRAHAM.....	New York City
SIMMONDS, FRANK H.....	Yonkers, N. Y.
STEVENS, CLARENCE ELLSWORTH.....	Newark, N. J.
SUZUKI, BUNJIRO.....	Hiroshima, Japan
WEYANT, JOHN AUGUSTUS.....	Yorktown, N. Y.
WILLIAMSON, ROBERT GORDON.....	Greenwich, Conn.
WOHLGEMUTH, MAURICE WILLIAM.....	New York City
WYE, TOM SHEW (Senior Columbia College).....	Canton, China

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## ELECTRICAL ENGINEERING

BAENA, LOUIS CARLOS.....	Barranquilla, Colombia
BALMFORD, J. ARTHUR.....	New York City
BAXTER, CHANNING WHEELER.....	New York City
BINDER, ALBERT AUGUSTUS.....	Aurora, Ill.
BLANCHARD, DONALD D.....	New York City
DEB, ERNEST L.....	New York City
DICKIE, DOUGLAS PERRY (Senior Columbia College).....	New York City
EDWARDS, JOSEPH BALL.....	New York City
FAILLA, GIOACCHINO.....	New York City
HAMDI, ABDULLAH FEYZI.....	Constantinople, Turkey
JAKES, SANFORD (Senior Columbia College).....	New York City
MÜLLER, CHARLES ALBERT.....	Hawthorne, N. Y.
NAVON, SAMY.....	New York City
REID, WILLIAM EGLINTON.....	New York City
SMITH, IRVING DAVID (Senior Columbia College).....	New York City
VON SOTHEN, CARL ERNEST HERMAN.....	New York City
STONE, CLARENCE GEORGE, JR.....	Mt. Vernon, N. Y.
VOGLER, PETER CHARLES.....	New York City
WELCH, WALTER, A.B. University of Breslau 1908.....	Scarsdale, N. Y.
WOOLFOLK, ROPER BLACKERBY, A.B. Randolph-Macon College 1911....	Ashland, Va.

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## MECHANICAL ENGINEERING

ALLEN, HAROLD FELTON.....	Washington, D. C.
BARNABY, RALPH STANTON.....	New York City
BARTLETT, JOHN HOWARD, 3RD.....	West Orange, N. J.
BAUMEISTER, PHILIP.....	New York City
BLEBECKER, ANTHONY LISPENARD.....	New York City
BROUGHTON, HAROLD E.....	Hackensack, N. J.
CRAMP, ARNOLD P.....	New York City
EICHENBERG, MARK A.....	Jacksonville, Fla.

FRIEDRICH, PAUL ERNEST.....	New York City
GARDNER, EDWARD MERRILL.....	New York City
GARRISON, WYCKOFF LAWRENCE, B.S. Dartmouth 1912.....	New York City
GORDON, WILLIAM EDWARD.....	New York City
HAWK, KARL WHITTINGTON.....	Belvidere, N. J.
HILDRETH, CHARLES LEWIS, JR.....	Southampton, N. Y.
HOUGHTON, SEYMOUR PHILLIPS (Senior Columbia College).....	Tarrytown, N. Y.
HOWARD, JAMES EDWARD.....	Rye, N. Y.
JEANNERET, ANDRÉ.....	Rutherford, N. J.
JOHNSON, JAMES WENDELL.....	Oswego, N. Y.
KING, HAROLD BECKWITH.....	Sound Beach, Conn.
KUHN, SALLY.....	New York City
LAUBER, HUBERT CROW.....	Baltimore, Md.
LUM, SAMUEL CLARK, JR.....	Elizabeth, N. J.
O'CONNOR, GEORGE WATSON.....	New York City
PELTZ, GORDON MILLIGAN.....	Elmhurst, N. Y.
PILNACEK, EDWARD A.....	New York City
RANDELL, GEORGE MULFORD, A.B. Amherst 1912.....	New York City
ROCHÉ, JEAN ALFRED.....	New York City
ROLAND, PERCY W.....	New York City
ROTKOWITZ, HARRY SOLOMON, A.B. C. C. N. Y. 1912.....	New York City
SPALDING, SAMUEL CLYDE.....	New Rochelle, N. Y.
STORK, WILFRED L., B.S. C. C. N. Y. 1912.....	Jersey City, N. J.
TROY, ALFRED CHAPIN FRANCIS.....	New York City
VALENTINE, ROY HOTCHKISS.....	New York City
WELLING, LINDSAY HOWE.....	New York City
WHITE, WALLACE (Senior Columbia College).....	Pelham Heights, N. Y.
WITZELL, PAUL JOHN.....	New York City
ZAIDOVICH, MORRIS M.....	New York City

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## CHEMICAL ENGINEERING

BALL, DAVID SPENCER (Senior Columbia College).....	New York City
BARR, SIMON (Senior Columbia College).....	New York City
BODZINER, JOSEPH.....	New York City
BROPHY, WILLIAM EDWARD.....	Yonkers, N. Y.
CAREY, THOMAS F.....	New York City
ELIAS, NATHAN M.....	New York City
ERNST, HERMAN.....	East Orange, N. J.
ESSER, ALVAH ERNEST.....	Yonkers, N. Y.
GLIMM, WILLIAM FREDERICK, JR.....	Jersey City, N. J.
GROSS, PAUL LIVINGSTON.....	New York City
HARTIG, SIEGFRIED H., B.S. 1912.....	New York City
HIRSCH, IRVING.....	Newark, N. J.
MACKINTOSH, JAMES HANDFORTH, B.S. 1912.....	Maplewood, N. J.
MOSES, ALFRED STAUNTON.....	New York City
MUESER, EMIL.....	New York City
PENFIELD, RICHARD GUSTAVUS.....	New York City
SILLIMAN, HALSEY ERNEST.....	New York City
SOHON, FREDERICK WYATT.....	New York City
SPRINGER, WILLIAM MOORE.....	New York City
STEHLEY, ERNEST THEODORE.....	New Rochelle, N. Y.
STONE, RICHARD HENRY.....	West Lafayette, Ind.
TAYLOR, THEODORE CLINTON.....	Mt. Vernon, N. Y.
WEBSTER, JAMES CLARENCE, A.B. Western Reserve 1912.....	Cleveland, Ohio

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## METALLURGY

ALDEN, JOHN WOODS.....	Newark, N. J.
CURWEN, GEORGE BARR.....	Salem, Mass.
FRANKEL, SAMUEL.....	New York City
FRENCH, HERBERT JAMES.....	New York City
HOWRY, HAMILTON HUBBARD.....	Denver, Colo.

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## CHEMISTRY

ALTENBERG, LEO.....	New York City
GOLDSTEIN, JACOB COLUMBUS.....	New York City
HARWOOD, HAROLD ROBERT.....	Tenafly, N. J.
HORTON, JEFFERSON ALLEN.....	New York City

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## SANITARY ENGINEERING

COHEN, HARRY.....	Norwich, Conn.
CORBETT, RAY F.....	Clayton, N. M.

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## SECOND YEAR—CLASS OF 1915

Mining Engineering.....	19
Civil ".....	50
Electrical ".....	20
Mechanical ".....	37
Chemical ".....	23
Metallurgy.....	5
Chemistry.....	4
Sanitary Engineering.....	2
Total.....	160
Deduct Seniors from Columbia College.....	10
Net total.....	150

## FIRST YEAR—CLASS OF 1916

ACKERMAN, RUDOLPH WILLIAM.....	Hartsdale, N. Y.
ALLEN, EDWIN THOMAS.....	Buffalo, N. Y.
ALPERIN, JACOB.....	New York City
AMY, ERNEST VALENTINE.....	New York City
ARMSTRONG, JAMES ANDREW BRUCE.....	New York City
ARONESCU, LEON I.....	New York City
ASTROM, WALTER BIRGER.....	New York City
BALLENTINE, ALMYR COOPER.....	Newark, N. J.
BARRY, WALTER D.....	Yonkers, N. Y.
BARTON, VICTOR NATHAN.....	Cedarhurst, N. Y.
BEARD, HOWARD IRENAEUS.....	New York City
BEATTY, LAWRENCE RICHMOND.....	New York City
BELISLE, FELIX GRIFFIN.....	Norwich, N. Y.
BERNSTEIN, DAVID MEYER.....	New York City
BERRY, SYDNEY GRISWOLD.....	Montclair, N. J.
BEYER, HAROLD WETMORE.....	New York City
BIRKETT, HOWARD.....	New York City

BISCHOFF, HENRY WILLIAM.....	New York City
BLOCH, JAMES JOSEPH.....	New York City
BLOCK, MARTIN.....	New York City
BONART, COLMAN I.....	Houston, Texas
BOWMAN, JOHN HAROLD.....	New York City
BRAININ, HOWARD.....	New Rochelle, N. Y.
BRAUN, LEO.....	New York City
BRIZZOLARA, ROBERT.....	New York City
BUNZL, WALTER GUS.....	New York City
BUTLER, HERBERT FULLER.....	New Rochelle, N. Y.
CANAVAN, PATRICK FRANCIS.....	New York City
CHAN, CHUN YOUNG.....	Canton, China
COME, MERRILL INGRAHAM.....	New York City
CONNELL, JOHN HENRY, JR.....	New York City
CONSTANT, S. VICTOR.....	Yonkers, N. Y.
COOKE, THOMAS TURNER.....	Orange, N. J.
COWAN, WILLIAM.....	New York City
CRAMER, RALPH S.....	Passaic, N. J.
CURRY, TRUMAN MINOR, JR.....	New York City
CURRY, WALTER AUGUST.....	New York City
DIEKMANN, WILLIAM HERMAN.....	New York City
DOBSON, GEORGE GARDNER.....	Brockport, N. Y.
DOWLING, LAURENCE.....	New York City
FAGAN, JAMES FRANCIS.....	New York City
FEARN, HEWITT ONDERDONK.....	Puntarenas, Costa Rica
FINKEL, HARRY.....	Jersey City, N. J.
FLYNN, KIRTLAND.....	New York City
FRIEDMANN, JOHN MILTON.....	New York City
FUNKE, CARL ALBERT DANIEL.....	New York City
GABRIEL, JOHN CECIL.....	Gardiner, N. Y.
GACHOT, CHARLES A. J., JR.....	New York City
GAMPERT, LOUIS.....	New York City
GERTZ, MAX.....	New York City
GETZOV, SAMUEL.....	New York City
GILL, DALIP SINGH.....	Budh Singh Wala, India
GILLET, WILLIAM VAN KIRK.....	New York City
GLADSTEIN, JOSEPH.....	New York City
GLEESON, JOHN MAURICE.....	New York City
GREENWALD, LOUIS.....	New York City
GROMAN, SOLOMON.....	New York City
GROSSMAN, HERMAN.....	New York City
GROTEN, FRANK, JR.....	Paterson, N. J.
GUTERMAN, HERBERT.....	New York City
HAMILTON, ARTHUR GOULD.....	New York City
HANLON, JOSEPH T., A.B. Loyola College 1912.....	Baltimore, Md.
HARDING, WILLIAM JOHN, JR.....	New York City
HARPER, PHILIP STRICKLAND.....	Islip, N. Y.
HARRIS, ADRIEL.....	New York City
HARRIS, ROBERT VAN KLEECK, JR.....	Bantam, Conn.
HAYES, ERNEST ALBERTUS.....	New York City
HEATH, JAMES NEWTON.....	Paterson, N. J.
HECHT, ALFRED SAMUEL.....	New York City
VON HEIMBURG, FRED.....	New York City
HENRY, ALEXANDER STEWART, JR.....	New York City



HENSEL, SIEGFRIED.....	Jersey City, N. J.
HERMAN, M. ROBERT.....	New York City
HILL, HERBERT MALCOLM, JR.....	Buffalo, N. Y.
HOCHSCHILD, HAROLD, A.B. Yale 1912.....	New York City
HUTTON, HAROLD STEPHENS.....	West Nyack, N. Y.
JACOBS, HENRY LAWRENCE.....	New York City
JAUSS, RAYMOND.....	Congers, N. Y.
JEDLICKA, FRANK CHARLES.....	Elmhurst, N. Y.
JOHN, GEORGE HENRY, JR.....	New York City
JOHNSON, S. TAYLOR, JR.....	Croton-on-Hudson, N. Y.
JONES, VINCENT LE ROY.....	Mt. Vernon, N. Y.
KANE, DANIEL COUGHLIN.....	New York City
KELLEHER, CORNELIUS.....	Yonkers, N. Y.
KELLY, JAMES EVERETT, A.B. St. Francis Xavier 1911.....	New York City
KEMPF, NORMAN WILLIAM FREDERICK.....	Newark, N. J.
KILBOURNE, KENNETH ALEXANDER.....	Seattle, Wash.
KING, FRANK.....	New York City
KIRCH, WALTER LEW.....	New York City
KLUGESCHIED, WALTER PETER.....	New York City
KRUG, CARL.....	New York City
KUCHAR, JOSEPH JAROMIR.....	New York City
KÜRSCHNER, HERMANN HEINRICH.....	Thal, Thüringen, Germany
LAMBERT, NOAH D.....	New York City
LANE, LESTER BARKER.....	Peekskill, N. Y.
LANGE, WILLIAM.....	Tomkins Cove, N. Y.
LAPLUME, JOHN.....	New York City
LEGANOVA, EMILIO, Diploma University of France 1910.....	Camaguey, Cuba
LIU, TIEN TOH.....	Changsha, Hunan, China
LUKASHOK, JACOB GREGORY.....	New York City
MCCANDLISH, RANDOLPH WALKE.....	Northampton, Mass.
MEDINE, SIMON.....	New York City
MENDONÇA, OLYNTHO Diploma Mackenzie College 1911.....	Manaos, Brazil
MELBERG, HYMAN.....	New York City
MICHAELSON, ARTHUR GEORGE.....	New Rochelle, N. Y.
MILLER, EDWARD.....	Los Angeles, Calif.
MILYKO, ALEXANDER.....	New York City
MOELLER, LEWIS NICHOLAS.....	New York City
MONELL, LEON MASON, Ph.C. 1911.....	Binghamton, N. Y.
MOORE, ELMER WILLIAMS, B.S. Colgate 1912.....	New York City
MORCH, JOHN.....	New York City
MURRAY, VINCENT JOHN.....	Pleasantville, N. Y.
MYERS, OSCAR BLAIR.....	Mt. Vernon, N. Y.
NABOSHEK, DAVID.....	New York City
NEINKEN, MORTIMER L.....	New York City
NEVITT, HENRY GLAVIS.....	New York City
NORTON, ALWIN WOOD.....	Far Rockaway, N. Y.
NUSIM, SOLOMON IRVING.....	New York City
PASCARELLA, ANTHONY JOSEPH.....	Emerson, N. J.
PENDLETON, NATHANIEL GREENE, JR.....	New York City
PETERS, FRAZIER FORMAN.....	New York City
PROPPER, WALTER.....	New York City
RAHMAN, WALTER.....	Ossining, N. Y.
REILLY, HENRY CHARLES, JR.....	New York City
RENARD, FREDERICK ARTHUR.....	New York City
ROBERTS, CLEMENT ALBERT.....	New York City

ROCKMAN, ALEXANDER S.....	New York City
ROMEO, DONATO.....	New York City
RUKEYSER, WALTER ARNOLD.....	Atlantic City, N. J.
SCHANGER, JACOB.....	New York City
SCHAPIRA, JOHN M., Ph.G. 1905.....	New York City
SCHIFFMAN, CHARLES DAVID.....	New York City
SCHLOSS, JOHN MALCOLM.....	New York City
SCHULZ, OTTO GEORGE.....	New York City
SEE, CHONG SU.....	Hongkong, China
SEIFERLING, KURT FRANK JOSEPH ADAM.....	New York City
SEITZ, JULIUS EMILE, JR.....	Newark, N. J.
SIEGEL, MILTON.....	New York City
SMITH, ARTHUR.....	Port Chester, N. Y.
SMITH, HENRY BOYNTON.....	Northampton, Mass.
SMITH, WILLIAM PHILLIP.....	New York City
SOMAN, PHILIP.....	New York City
SPIRO, GEORGE CLINTON.....	New York City
SPOONER, RAY NEWHALL.....	New York City
SQUIRES, LAURENCE WENDELL.....	Good Ground, N. Y.
STEFFENS, JOHN ALFRED, Phar.D. 1910.....	New York City
STEINBRUCH, HERMAN.....	New York City
STRANG, JOHN ARTHUR.....	Jersey City, N. J.
TARNOPOLL, LOUIS.....	New York City
TAYLOR, DONALD WILLIAM.....	New York City
TERNOFF, MORRIS.....	Buffalo, N. Y.
TITUS, HUBERT J.....	Schenectady, N. Y.
TRACY, FREDERICK SMITH.....	New York City
TSAI, MO CHUNG.....	Shanghai, China
VOLLMER, DAVID WILBERT.....	Bell Harbor, N. Y.
WALKER, WILLIAM FARQUHARSON.....	New York City
WALSH, JOSEPH LEONARD.....	Catonsville, Md.
WASHINGTON, BOWDEN.....	New York City
WEAVER, ERNEST W.....	New York City
WEBB, TORREY HORD.....	New York City
WELLS, MILTON HOWARD.....	Mt. Vernon, N. Y.
WENSLEY, ROGER LYTLE.....	New York City
WIDDER, JOHN ARTHUR.....	Mt. Vernon, N. Y.
WILEY, HOWARD.....	Mt. Upton, N. Y.
WORMSER, FELIX EDGAR.....	New York City
ZINS, MAX.....	New York City
ZUEGE, HERMAN WILLIAM.....	New York City

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## NON-MATRICULATED STUDENTS

BANTRELL, MYRON A.....	Rochester, N. Y.
BIKLÉ, PAUL F.....	Hagerstown, Md.
CADY, PIERRE A.....	Bloomfield, N. J.
EWING, W. E.....	New York City
GAUJOT, RENÉ P.....	Williamson, W. Va.
GAYNOR, ISIDOR.....	New York City
HONGO, MINATO.....	Japan
JOSEPH, WILLIAM E.....	Cleveland, Ohio
McHUGH, EDWIN C.....	Cincinnati, Ohio
MASTICK, SEABURY CONE.....	Pleasantville, N. Y.
PINTO, ANTHONY, B.E. Cooper Union.....	New York City
PRIME, WILLIAM ALBERT, JR., A.B. Yale 1911.....	New York City
SIEBENMORGEN, W. C.....	New York City

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## SUMMARY

	Second Year	Third Year	Fourth Year	Totals
SCHOOL OF MINES:				
Mining Engineering.....	19	35	42	96
Metallurgy.....	5	7	8	20
SCHOOL OF CHEMISTRY:				
Chemistry.....	4	5	2	11
Chemical Engineering.....	23	25	21	69
SCHOOL OF ENGINEERING:				
Civil Engineering.....	50	35	40	125
Electrical Engineering.....	20	16	16	52
Mechanical Engineering.....	37	17	25	79
Sanitary Engineering.....	2	1	3	6
	160	141	157	458
FIRST-YEAR CLASS.....				167
NON-MATRICULATED.....				13
Total.....				638
Deduct Seniors from Columbia College.....				10
Net total.....				628

## FACULTY OF POLITICAL SCIENCE

### The Faculty

President BUTLER

Dean WOODBRIDGE

Professors <sup>1</sup> BEARD, <sup>2</sup> BOTSFORD, CHADDOCK, <sup>1</sup> CLARK, DEVINE, DUNNING, GIDDINGS, GOODNOW, GUTHRIE, <sup>2</sup> JOHNSON, LINDSAY, MCGIFFERT, MOORE, (J. B.), MOORE (H. L.), MUSSEY, OSGOOD, ROBINSON, ROCKWELL, SEAGER, <sup>1</sup> SELIGMAN, SHEPHERD (*Secretary*), SHOTWELL, SIMKHOVITCH, <sup>1</sup> SLOANE, SMITH (MUNROE), SUZZALLO, TENNEY

Professor GIDDINGS (Term expires 1915).....*Elected Delegate to the University Council*

Standing Committee on Instruction: Professors GOODNOW, (*Chairman*), MUNROE SMITH, DUNNING, GIDDINGS and SEAGER.

Delegates to University Council, see page 3.

### GENERAL STATEMENT

The Faculty of Political Science, established in 1880, has charge of the university courses of instruction and research in political and social science, including history, economics, public law and comparative jurisprudence. Any duly matriculated university student is at liberty to combine courses of study and investigation under this Faculty with courses offered by other Faculties of the University. Women who hold a baccalaureate degree are admitted to the School of Political Science as students in history, economics and social science and may become candidates for the higher degrees.

Students are received either as candidates for the degrees of Master of Arts and Doctor of Philosophy (see "Regulations for University Degrees," page 184 *et seq.*), or as "non-matriculated students," to pursue special or partial courses.

It is the purpose of the School of Political Science to give a complete general view of all the subjects of public polity, both internal and external, from the threefold point of view of history, law, and philosophy. The prime aim is, therefore, the development of all the branches of the political and social sciences. The secondary and practical objects are:

- (a) To fit young men for the public service.
- (b) To give an adequate economic and legal training to those who intend to make journalism their profession.
- (c) To supplement, by courses in public law and comparative juris-

<sup>1</sup> Absent on leave 1912-13.

<sup>2</sup> Absent on leave second half-year.

prudence, the instruction in private municipal law offered by the Faculty of Law.

(d) To educate teachers of history, economics, social science, public law, and jurisprudence.

### COURSES OF INSTRUCTION

For information regarding the courses offered in 1912-13 see statement under groups of subjects, as follows:

Economics and Social Science, page 88.

History and Political Philosophy, page 113.

Politics, Public Law, and Comparative Jurisprudence, page 121.

For more detailed accounts of the courses and for the tender of 1913-14, application should be made for the Announcement of the Division of *History, Economics and Public Law*.

Attention is also called to the separately printed pamphlet entitled *Faculties of Political Science, Philosophy and Pure Science*, which may be had upon application to the Secretary of the University.

### Yale-Columbia Courses in Preparation for Foreign Service

A system of courses has been inaugurated by Yale University and Columbia University, to prepare students for work in foreign countries, either in the service of the United States Government, in business enterprises, or as missionaries or scientific investigators.

The courses are intended to make the student familiar with the general subjects required for successful work in foreign countries and to enable him, by means of this knowledge, to gain quick mastery of special problems that present themselves in diverse occupations and regions. More special courses of instruction are intended to convey knowledge relating to particular regions in which the student intends to carry on his work.

The successful completion of the courses offered, which will normally occupy three years in the case of candidates for the consular service, and two years in the case of candidates for other foreign service in special fields, will entitle the student, on recommendation of the joint committee in charge of the course of studies, to an appropriate certificate signed by the Presidents of Yale University and Columbia University. Subject to the rules of the two coöperating institutions, candidates for certificates are admitted to candidacy for the regular academic degrees.

The course of study is framed primarily for graduate students, but it is also open to specially qualified students who have not completed the full college course. Students are expected to have completed successfully at least two years of undergraduate work at either Yale University or Columbia College, or to give proof of equivalent training.

Candidates for a certificate must prove their ability to read French or German, and must have completed the regular college courses on the



general principles of economics, American history, and European history of the nineteenth century.

The program of studies includes seven divisions: (1) Languages, (2) Geography, (3) Ethnography, (4) History, (5) Religions, (6) Economics, (7) Law.

## FACULTY OF PHILOSOPHY

### The Faculty

President BUTLER

Dean WOODBRIDGE

Professors ADLER, AYRES, BAGSTER-COLLINS, BAKER, BERGSON, BOAS, BREWSTER, BUSH, CARPENTER, CATTELL, COHN, DEWEY, DUTTON, EGBERT, ERSKINE, FARRAND, FLETCHER, FULLERTON, GERIG, GOTTHEIL, <sup>2</sup> HERVEY, HIRTH, JACKSON, KNAPP, KRAPP, KRÜGER, LAWRENCE (*Secretary*), LIVINGSTON, LODGE, LOISEAUX, MCCREA, MCMURRY, MACVANNEL, MATTHEWS, MILLER (D. S.), <sup>3</sup> MONROE, <sup>2</sup> MONTAGUE, MOORE (F. G.), PERRY, PITKIN, <sup>3</sup> PRINCE, REMY, RUSSELL, SACHS, SAVILLE, <sup>1</sup> STRONG, THOMAS, <sup>2</sup> THORNDIKE (A. H.), <sup>2</sup> THORNDIKE (E. L.), TODD, TOMBO, TRENT, WEEKS, WHEELER, WOODWORTH, YOUNG

Standing Committee on Instruction: Professors MCCREA (*Chairman*), DEWEY, PRINCE, FLETCHER and MONROE

Delegates to the University Council, see page 3

### GENERAL STATEMENT

The Faculty of Philosophy, established in 1890, has charge of the university courses of instruction and research in philosophy, psychology, education, anthropology, philology, and letters. Any duly matriculated university student is at liberty to combine courses of study and investigation under this Faculty with courses offered by other Faculties of the University.

Students are received either as candidates for the degree of Master of Arts and Doctor of Philosophy (see "Regulations for University Degrees," page 184 *et seq.*), or as "non-matriculated students," to pursue special or partial courses.

### COURSES OF INSTRUCTION

For information regarding the courses offered in 1912-13, see departmental statements as follows: Anthropology, page 59. Classical Philology (including Archaeology and Epigraphy), page 80. Education, page 91. English and Comparative Literature, page 99. Germanic Languages, page 108. Oriental Languages: Chinese, page 137; Indo-

<sup>1</sup> Absent on leave 1912-13.

<sup>2</sup> Absent on leave first half-year.

<sup>3</sup> Absent on leave second half-year.

Iranian, page 137; Semitic, page 138. Philosophy and Psychology, page 144. Romance Languages, page 159. Science of Language, page 138.

For more detailed accounts of the courses and for the tender of 1913-14 application should be made for the divisional *Announcement of Ancient and Oriental Languages; Modern Languages and Literatures; Philosophy, Psychology, and Anthropology*; and of Teachers College.

Attention is also called to the separately printed pamphlet entitled *Faculties of Political Science, Philosophy and Pure Science*, which may be had upon application to the Secretary of the University.

## FACULTY OF PURE SCIENCE

### The Faculty

President BUTLER

Dean WOODBRIDGE

Professors BOGERT, BRITTON, <sup>2</sup>BURTON-OPITZ, BURR, CALKINS, COLE (*Secretary*), CRAMPTON, <sup>1</sup>CROCKER, CURTIS, DAVIS, <sup>1</sup>DEAN, DODGE, FISKE, GIES, GRABAU, HALLOCK, HARPER, HISS, HOWE, HUNTINGTON, JACOBY, JOHNSON (D. W.), KASNER, <sup>2</sup>KEMP, KEYSER, LEE, <sup>3</sup>LUCKE, LUQUER, MACCALLUM, MACLAY, MARQUETTE, MITCHELL, (H. B.), <sup>1</sup>MITCHELL (S. A.), MORGAN (J. L. R.), MORGAN (O. S.), MORGAN (T. H.), MOSES, MUNROE, OSBORN, PEGRAM, PIKE, POOR, PUPIN, RICHARDS, SHERMAN (H. C.), SMITH (ALEXANDER), SMITH (D. E.), STEWART, <sup>3</sup>WILLS, WILSON, WOODHULL

Standing Committee on Instruction: Professors FISKE (*Chairman*), PEGRAM, CALKINS, WILSON, and BOGERT

Delegates to the University Council, see page 3.

### GENERAL STATEMENT

The faculty of Pure Science, established in 1892, has charge of the university courses of instruction and research in all branches of pure science. Any duly matriculated university student is at liberty to combine courses of study and investigation under this Faculty with courses offered by other Faculties of the University.

Students are received either as candidates for the degrees of Master of Arts and Doctor of Philosophy (see "Regulations for University Degrees," page 184 *et seq.*), or as "non-matriculated students," to pursue special or partial courses.

### COURSES OF INSTRUCTION

For information regarding the courses offered in 1912-13, see departmental statements as follows: Anatomy, page 57. Astronomy, page 63. Bacteriology, page 64. Biological Chemistry, page 65. Botany, page 67. Chemistry, page 71. Civil Engineering, page 77. Electrical Engineering, page 97. Geology, page 105. Highway Engineering, page 78. Mathematics, page 123. Mechanical Engineering, page 126. Mechanics, see Physics. Metallurgy, page 128. Mineralogy, page 130. Mining, page

<sup>1</sup> Absent on leave 1912-13.

<sup>2</sup> Absent on leave first half-year.

<sup>3</sup> Absent on leave second half-year.

131. Pathology, page 141. Pharmacology, page 142. Physics, page 150. Physiology, page 154. Zoology, page 165.

For more detailed accounts of the courses and for the tender of 1913-14, application should be made for the divisional *Announcement of College of Pharmacy; Biology; Chemistry; Geology, Geography, and Mineralogy; Mathematical and Physical Science*; and of the *Schools of Mines, Engineering, and Chemistry*.

Attention is also called to the separately printed pamphlet entitled *Faculties of Political Science, Philosophy and Pure Science*, which may be had upon application to the Secretary of the University.



## REGISTER OF STUDENTS, 1912-13

Under the Faculties of Political Science, Philosophy,  
and Pure Science<sup>1</sup>

ABNEY, JAMES HENRY, A.B. Bethel 1900.....	Plainview, Tex.
<i>Sociology</i>	
ABRAHAM, CHARLOTTE ROSE OESTERLEIN, A.B. 1907, A.M. 1908.....	New York City
<i>Social Economy</i>	
ABRAHAM, IRMA, A.B. N. Y. Normal 1911.....	New York City
<i>Germanics</i>	
ABRAHAM, MATHILDE, A.B. 1909.....	New York City
<i>Economics</i>	
ADAM, ROBERT MOSER, A.B. Franklin and Marshall 1911.....	Temple, Pa.
<i>Sociology</i>	
ADAMS, ARLON TAYLOR, A.B. Wesleyan 1904.....	Madison, N. J.
<i>Sociology</i>	
ADAMS, BENJAMIN P., A.B. Wesleyan 1907.....	Rochester, N. Y.
<i>English</i>	
ADDINGTON, SARAH, A.B. Earlham 1912.....	Richmond, Ind.
<i>English</i>	
ADKINS, WALTER SCOTT, B.S. Tennessee 1910.....	Knoxville, Tenn.
<i>Zoölogy, Physical Chemistry</i>	
ADLER, ALPHONSE ANDREW, M.E. Brooklyn Polytechnic 1909.....	New York City
<i>Mechanics</i>	
AGHNIDES, NICHOLAS, LL.B. Ottonian Law School 1909...	Constantinople, Turkey
<i>Economics, Sociology</i>	
ALDEN, ISABEL, A.M. 1911, A.B. Wellesley 1908.....	Summit, N. J.
<i>Botany</i>	
ALEXANDER, ALICE LUCILE, A.B. Agnes Scott 1911.....	Atlanta, Ga.
<i>Romance, Comparative Literature</i>	
ALEXANDER, COLIN CUTHBERT, A.M. 1907, A.B. Wofford 1900.....	Darlington, S. C.
<i>English</i>	
ALLEN, MORSE SHEPARD, A.B. Wesleyan 1912.....	New York City
<i>English, History</i>	
ALLISON, CHARLOTTE DEWITT, A.B. Wells 1910.....	New York City
<i>History</i>	
ALLISON, MARY LEE, A.B. Randolph Macon 1905.....	Pulaski, Va.
<i>Psychology</i>	
ALSTET, MURRAY A., A.B. C. C. N. Y. 1911.....	South Bethlehem, Pa.
<i>Philosophy, Sociology</i>	
ALTMAN, MRS. SADIE RAYNER.....	Buffalo, N. Y.
<i>Social Economy</i>	

<sup>1</sup> Officers in the University who are at the same time pursuing courses for the higher degrees are not included in this list. Wherever the name of a State is given after a degree, it signifies that the student has graduated from the given State University.

- ALTSHILLER, NATHAN, D.Sc. Ghent 1911.....New York City  
*Mathematics*
- AMMARELL, RAYMOND ROBERT, A.M. 1912, A.B. Muhlenberg 1911..West Leesport, Pa.  
*History, Economics*
- ANDERSON, FLORENCE DE NOYELLES, A.B. 1912.....New York City  
*English*
- ANDERSON, HERBERT RAY, A.B. Lake Forest 1899.....New York City  
*Latin*
- ANDERSON, JOSEPHUS COURTENAY, A.B. Wofford 1906, A.M. 1907....New York City  
*English*
- ANDERSON, WILLIAM KETCHAM, A.B. Wesleyan 1910.....Cincinnati, Ohio  
*Sociology, Education*
- ANDREWS, ROY CHAPMAN, A.B. Beloit 1906.....New York City  
*Zoology*
- APELIAN, BEDROE KEVORK, A.B. Oberlin 1909.....Kessob Turkey in Asia  
*Psychology*
- APPELDOORN, MARY RIDLEY, B.S. Kalamazoo 1908.....Kalamazoo, Mich.  
*English Education*
- ARCHER, CATHERINE AGATHA, A.B. N. Y. Normal 1912.....New York City  
*Physics*
- ARROWSMITH, HAROLD.....New York City  
A.B. 1876, B.D. Episcopal Theological Seminary 1879  
*History*
- ASHLEY, ROSCOE LEWIS, A.M. 1898, A.B. Rochester 1894.....Pasadena, Calif.  
*Economics, Sociology*
- AUSTIN, HARRIET, A.B. Minnesota 1906.....Warsaw, Minn.  
*History*
- BABBITT, HILDEGARDE, A.B. Cincinnati 1909.....New York City  
*History*
- BACHRACH, DUDLEY J., A.B. 1912.....New York City  
*Chemistry*
- BAKER, ETHEL.....Austin, Texas  
*Geology*
- BAKER, HELEN E., A.B. Richmond 1907.....Richmond, Va.  
*History*
- BAKER, SAMUEL N., A.B. Brown 1905.....Montclair, N. J.  
*French*
- BALD, MAACHAH BELL, A.B. Toronto 1888.....New York City  
*History*
- BALDWIN, BURTON JOHN, A.B. Yale 1903.....New York City  
*Sociology, Economics*
- BALDWIN, ESTHER ELIZABETH, A.B. Swarthmore 1909.....West Chester, Pa.  
*English, Education*
- BALKAM, LEONORA, A.B. N. Y. Normal 1911.....New York City  
*English*
- BALZ, ALBERT GEORGE ADAM, A.B. Virginia 1908, A.M. 1909...Charlottesville, Va.  
*Philosophy, Psychology*
- BANCROFT, MARGARET, A.B. Wellesley 1912.....Wellesley, Mass.  
*Latin, History*
- BARASCH, MORRIS, B.S. C.C.N.Y.....New York City  
*Mathematics*
- BARNETT, IRA WILLIAM, A.B. Missouri Valley 1908.....Port Chester, N. Y.  
*Sociology*
- BARRETT, MABEL, A.B. 1912.....New York City  
*Psychology, Philosophy*

- BARRY, LORETTA, A.B. Radcliffe 1903.....New York City  
*English*
- BATES, ABBY BARSTOW, A.B. Boston 1887, A.M. 1892.....New York City  
*History*
- BATES, JOHN S., A.B. Acadia 1908, B.S. 1909.....Sackville, N. B., Can.  
*Chemistry*
- BEACH, GRACE BENTLEY.....Pelham, N. Y.  
B.S. N. Y. Normal 1894, M.S. N. Y. Univ. 1898  
*Physics*
- BEARD, STELLA S.....New York City  
*English*
- BECK, EDWARD JOHN, A.M. 1912, A.B. Central Wesleyan 1906...Sherman Park, N. Y.  
*Sociology*
- BECKWITH, CORA JIPSON, B.S. Michigan 1900.....Poughkeepsie, N. Y.  
*Zoology, Physiology*
- BEER, MORRIS ABEL, B.S. C. C. N. Y. 1906.....New York City  
*English*
- BEHA, JOSEPH L., A.B. 1904.....New York City  
*German*
- BELCHER-HARDY, SARAH DROWNE.....New York City  
A.B. Boston 1887, A.M. N. Y. Univ. 1891  
*Social Economy*
- BELINKOFF, SAMUEL, A.B. 1910.....Bayonne, N. J.  
*Psychology*
- BELL, HERMAN FISKE, A.B. Amherst 1901.....New York City  
*Philosophy, Psychology, History*
- BENEDICT, KATHERINE LADD, A.B. Western Reserve 1912.....Wellington, Ohio  
*History, Economics*
- BENEDICT, LAURA ESTELLE WATSON, A.B. Chicago 1900, A.M. 1904..Detroit, Mich.  
*Anthropology, Zoology*
- BENNETT, ROSS VERNON, B.S. 1912.....Sodus Centre, N. Y.  
*English, Comparative Literature*
- BERGAMINI, RACHEL, A.B. 1908, A.M. 1909.....New York City  
*English*
- BERGSTRESSER, CLINTON A.....New York City  
*Mathematics*
- BERKOWITCH, LOUIS B., B.S. C. C. N. Y. 1901.....New York City  
*English*
- BERMAN, FLORENCE JULIA, A.B. N. Y. Normal 1911.....New York City  
*Education*
- BERNKOPF, ANNIE ELISE, B.S. 1909, A.M. 1911.....New York City  
*German, French Education*
- BERRY, JANE MILHOUSE, Litt.B. Midland 1897, Ph.B. Chicago 1904..Atchison, Kans.  
*History, Sociology*
- BILDERSEE, ADELE, A.M. 1912, A.B. N. Y. Normal 1903.....New York City  
*English*
- BINKLEY, LELIA TYLER, B.S. 1912.....Gainesville, Texas  
*Zoology, Botany*
- BIRNBAUM, SIMON, B.S. C. C. N. Y. 1912.....New York City  
*Chemistry, Education*
- BISHOP, CARL WHITING, A.B. De Pauw 1912.....Tarrytown, N. Y.  
*Anthropology, History, Spanish*
- BISHOP, DAVID HORACE.....Oxford, Miss.  
A.B. Emory and Henry 1891, A.M. Vanderbilt 1897  
*Comparative Literature, English*

- BISSELL, ROBERT WILSON, B.S. Washington 1912.....Pittsburgh, Pa.  
*Mining, Metallurgy, Geology*
- BLACKLY, FREDERICK FRANK, A.B. Oberlin 1911.....Delta, Colo.  
*History, Public Law*
- BLAESI, JOHN GEORGE FREDERICK.....New York City  
*Germanic*
- BLANCHARD, JULIAN, A.M. 1909, A.B. Trinity 1905.....Durham, N. C.  
*Physics*
- BLANCHARD, RALPH CARPENTER, B.S. Rose Polytechnic 1905.....London, Eng.  
*Geology*
- BLANKENSTEIN, MARGARETE, B.S. 1912.....New York City  
*English, Comparative Literature*
- BLISS, ELIZABETH HOWE, A.B. Smith 1908.....New York City  
*Social Economy*
- BOATWRIGHT, MAIDELLE, A.B. Coll. for Women Columbia S. C. 1912. Ridge Spring, S. C.  
*History, Sociology*
- BOGGS, NORMAN T., A.M. 1906, A.B. Princeton 1904.....Essex Fells, N. J.  
*Philosophy*
- BOLL, ARTHUR, A.B. Concordia 1896.....New York City  
*German*
- BOLLER, PAUL FRANKLIN, A.B. Syracuse 1910.....New York City  
*English*
- BOMAN, JOHN SIDNEY, A.B. Missouri 1902.....New York City  
*Mathematics*
- BONFOEY, EMMA COMSTOCK, A.B. Smith 1902.....Essex, Conn.  
*English*
- BOOKSTABER, PHILIP DAVID, A.M. 1912, B.S. C. C. N. Y. ....New York City  
*Social Economy*
- BOON, HAROLD OWEN, A.B. St. Johns Brooklyn 1911.....New York City  
*Philosophy, Psychology*
- BORN, SIDNEY, B.S. 1910.....New York City  
*Chemistry*
- BOURN, AUGUSTUS OSBORN, JR., A.M. 1908, LL.B. Columbian 1891..Bristol, R. I.  
*Economics*
- BOURNE, MARY JOY, A.B. Vassar 1900, A.M. Brown 1903.....New York City  
*History*
- BOURNE, RANDOLPH SILLIMAN, A.B. 1912.....Bloomfield, N. J.  
*Sociology, Philosophy*
- BOWES, ORLANDO CURTIN, B.S. Penna. State 1909.....State College, Pa.  
*Agriculture*
- BOWLES, FRANK CARROLL, A.B. Central 1902, A.M. 1903.....New York City  
*Mathematics*
- BOYCE, WARREN SCOTT, A.B. Wake Forest 1903, A.M. Chicago 1907..Selwin, N. C.  
*Economics*
- BRAND, CHARLES SAMUEL.....New York City  
*Public Law*
- BREAM, EDWIN STEWART, A.B. Pennsylvania 1904.....Elizabeth, N. J.  
*Botany*
- BRESEL, JENNIE KOHN, A.B. N. Y. Normal 1912.....New York City  
*Mathematics*
- BRETT, GEORGE MONROE, A.B. Bowdoin 1897.....New York City  
*Mathematics*
- BREWER, MARGARET DRYDEN, B.S. 1910.....New York City  
*Philosophy, Biology*
- BREWER, TULLIUS MILLER, A.B. Ohio Wesleyan 1912.....Roscoe, Ohio  
*Sociology*

- BREWSTER, ALICE DOROTHY, A.B. 1906, A.M. 1907.....New York City  
*English*
- BRIDGES, CALVIN BLACKMAN, B.S. 1912.....New York City  
*Zoology*
- BRISTOL, WARREN EDWIN, A.M. 1912, A.B. Middlebury 1907.....Vergennes, Vt.  
*History*
- BROCKMAN, FRANK MARION.....New York City  
*Social Economy*
- BROOKOVER, DOLLIE HORTENSE, A.B. Kansas State 1901.....Eureka, Kan.  
*Germanics, History, English*
- BROWER, HUGH R., A.B. Wabash 1906.....Indianapolis, Ind.  
*English*
- BROWN, GEORGE EDWARD, A.B. Baker 1908.....Lenexa, Kans.  
*Sociology*
- BROWN, GWENDOLEN, A.B. Adelphi 1904.....New York City  
*History*
- BROWN, HELEN ELIZABETH, A.B. Goucher 1905.....Atlantic Highlands, N. J.  
*Sociology*
- BROWN, HOMER GRANT, A.B. Toronto 1906.....St. Mary, Ont., Can.  
*Philosophy, Psychology, History*
- BROWN, MARION FRANCIS, A.B. Radcliffe 1909.....New York City  
*English, Comparative Literature*
- BRUNO, REV. JOHN.....New York City  
*Philosophy, Psychology*
- BRUNTON, JAMES STOPFORD LANDER, B.S. McGill 1910, M.S. 1912....Montreal, Can.  
*Geology, Metallurgy*
- BULSON, MARGARET THERESA, A.M. 1912, A.B. Radcliffe 1905.....Englewood, N. J.  
*Latin*
- BUNZEL, BESSIE, A.B. 1912.....New York City  
*History*
- BURLINGAME, ANNE ELIZABETH, A.M. 1910, A.B. Syracuse 1900.....New York City  
*Sociology*
- BURNE, ELEANOR, A.B. 1911.....Douglaston, N. Y.  
*Geology*
- BURNETT, MARGUERITE HILL, A.B. Adelphi 1910.....New York City  
*History, Education*
- BURR, EMILY THORP, A.B. 1911, A.M. 1912.....New York City  
*Psychology, Sociology*
- BURR, HUGH CHAMBERLIN, A.B. Princeton 1911.....Gloversville, N. Y.  
*Sociology*
- BURSCHE, JULIETTE EMMA, A.B. N. Y. Normal 1911.....New York City  
*English*
- BUSH, CHARLOTTE MARION, B.L. Western Reserve 1898.....New York City  
*English, Comparative Literature*
- BUSSEY, GERTRUDE CARMAN, A.B. Wellesley 1908, A.M. 1910.....Mt. Vernon, N. Y.  
*Philosophy, Sociology*
- BUTLER, WILLIAM, B.S. N. Y. Univ. 1912.....New York City  
*German, Education*
- CAHN, PAULINE.....New York City  
*Bacteriology*
- CALDWELL, WALLACE EVERETT, A.B. Cornell 1910.....New York City  
*History*
- CALKINS, CLARIBEL, Ph.B. Oberlin 1894.....Watertown, N. Y.  
*Germanics, Fine Arts, English*
- CAMERON, WALTER SCOTT, A.M. 1912, A.B. C. C. N. Y. 1895.....New York City  
*Botany*



- CAMPBELL, DONALD GEORGE, B.S. Whitman 1912.....Atlanta, Idaho  
*Mining, Geology, Mineralogy*
- CAMPBELL, FLORENCE WILDER, A.B. Mt. Holyoke 1901.....New York City  
*French*
- CANFIELD, LEON HARDY, A.B. Syracuse 1908.....Syracuse, N. Y.  
*History*
- CARLEY, LEON ALANSON, A.B. Syracuse 1892.....Caldwell, N. J.  
*Psychology*
- CARNALL, BESS, A.B. Arkansas 1909.....Fort Smith, Ark.  
*English, Comparative Literature*
- CARNEY, JOHN JAMES, A.B. Cornell 1908.....Carthage, N. Y.  
*English, Education*
- CARPENTER, HARRY ALLEN, B.S. Rochester 1902, M.S. 1912.....New York City  
*Chemistry*
- CARROLL, CHARLES A., A.M. 1911, A.B. Cornell 1910.....New York City  
*English, Comparative Literature*
- CARSE, ELIZABETH, A.M. 1911, Ph.B. Cornell 1895.....New York City  
*English, Comparative Literature*
- CARTER, CLARENCE E., B.S. Wesleyan 1908.....Chagrin Falls, Ohio  
*Philosophy, English, Comparative Literature*
- CARTER, PHEBE, A.B. Smith 1910.....Scranton, Pa.  
*Chemistry*
- CARVER, GAIL LUKE, A.B. Michigan 1907, A.M. 1908.....Climax, Mich.  
*Zoölogy, Botany*
- CARVER, WILLIAM RAYMOND, B.S. Pennsylvania 1912.....New York City  
*History*
- CASAMAJOR, MARTHA, A.B. Adelphi 1904.....New York City  
*History*
- CASE, BRAYTON CLARKE, B.S. California 1910.....So. Acton, Mass.  
*Botany*
- CASHMAN, JOSEPH FRANCIS, A.B. Adelphi 1905.....New York City  
*English*
- CASTLE, CORA SUTTON, A.B. Minnesota 1905, M.L. California 1908..San Francisco, Cal.  
*Psychology, Philosophy*
- CASTRITSY, GEORGE PETER.....New York City  
*Comparative Literature, English*
- CAUBLE, LAURA ANNIS, B.S. 1909.....New York City  
*Sociology*
- CERASO, JANUARIUS.....Union Hill, N. J.  
*Romance*
- CEROW, GEORGIA ANGELA, A.B. 1912.....New York City  
*Mathematical Physics*
- CHAMBERS, KATE ETHEL, A.B. Bryn Mawr 1911.....Adana, Turkey  
*Semitics, Romance*
- CHAN, YEW YUNG.....Shanghai, China  
*Economics, Social Economy*
- CHAPMAN, PERCY ADDISON, Litt.B. Princeton 1909, A.M. 1910....Plainfield, N. J.  
*Romance*
- CHASE, CARROLL L., A.B. Allegheny 1903.....New York City  
*Sociology*
- CHAZAL, PHILIP MAXWELL, A.B. Charleston 1906.....Charleston, S. C.  
*Chemistry*
- CHEN, SHAO-KWAN, A.M. Peking 1908.....Shanghai, China  
*Economics, Public Law*
- CHOATE, MIRIAM FOSTER, A.M. 1902, A.B. Smith 1889.....Essex, Mass.  
*History, Sociology*

- CHOW, CHUSHEN, B.S. Mass. Inst. Tech. 1911.....Peking, China  
*Chemistry*
- CHRISTIANSON, ADDIE OLIVE, A.B. N. Y. Normal College 1897..... New York City  
*English*
- CHU, CHAO HSIN, A.M. 1911, A.M. Peking 1907.....Peking, China  
*Economics, Public Law*
- CHUBB, HERMAN BLANEY, A.B. George Washington 1912.....New York City  
*Public Law, History*
- CHUNG, MON YIN, Ph.B. Yale 1912.....Canton, China  
*Metallurgy, Mining*
- CLAPP, ELSIE RIPLEY, A.B. 1908, A.M. 1909.....New York City  
*English*
- CLARK, DAVID LEONIDAS.....New York City  
A.B. East Texas 1907, A.M. North Carolina 1909  
*English, Comparative Literature*
- CLARK, DONALD LEMEN, A.M. 1912, A.B. De Pauw 1911.....South Bend, Ind.  
*English, German*
- CLARKE, EDWIN LEAVITT, A.B. Clark 1909, A.M. 1911.....Canon City, Colo.  
*Sociology, Political Economy*
- CLAUSS-KIRSTEN MARTHA, B.S. 1906.....New York City  
*Romance*
- CLEMENTS, HARVEY, A.B. Union 1895.....Winsted, Conn.  
*Philosophy, Comparative Literature*
- CLOUGH, HARVEY BURNETT, A.B. Amherst 1906.....New York City  
*Biological Chemistry*
- COBB, PERCIVAL BARTLETT, A.B. Dartmouth 1904.....New York City  
*Romance*
- COBB, WINIFRED V., A.B. Chicago 1909.....Boston, Mass.  
*History*
- COCHEU, FLORENCE ANASTASIA, A.B. New Rochelle 1911.....New York City  
*English*
- COHEE, ORA JASON, A.M. 1912, A.B. Wabash 1909.....New York City  
*Sociology*
- COHEN, HERMAN MAX, A.B. Chicago 1909.....New York City  
*Semitics*
- COHEN, THEODORE, B.S. C. C. N. Y. 1912.....New York City  
*Chemistry, Education*
- COLBY, ELBRIDGE, A.B. 1912.....New York City  
*English, Comparative Literature*
- COLLIER, PAUL STANLEY, A.B. Iowa 1911, A.M. 1912.....Durant, Ia.  
*Social Economy*
- COLLINS, THOMAS E.....Elizabeth, N. J.  
*Highway Engineering*
- COMSTOCK, ALZADA PECKHAM, A.B. Mt. Holyoke 1910.....New London, Ct.  
*Economics, Sociology*
- COMSTOCK, GRACE ELEANOR, A.B. Minnesota 1899.....Mankato, Minn.  
*History*
- CONKEY, MARY VILURA, A.B. St. Lawrence 1901.....New York City  
*Comparative Literature*
- CONKLIN, JUDITH CECILIA, A.B. St. Elizabeth 1912.....Ansonia, Conn.  
*English, Comparative Literature*
- CONNELLY, ANNA MATILDA, A.M. Wilson 1909.....Harrisburg, Pa.  
*Botany, Chemistry*
- CONVERSE, GUY CHESTER, A.B. Hillsdale 1910.....Hillsdale, Mich.  
*Social Economy*
- COOPER, ANNA PEARL, A.B. Colorado 1896, A.M. Stanford 1906.....New York City  
*English, Comparative Literature*

- COOPER, FRANCIS LeROY, A.B. Baker 1910.....Cresskill, N. J.  
*Sociology*
- COOPER, FRANK BRISCOE, A.B. Randolph-Macon, A.B. 1905, A.M. 1906 Buena Vista, Va.  
*Mechanics, Mathematics*
- COPELAND, HENRY FENELON, A.B. Syracuse 1905.....New York City  
*German, English*
- COPPOCK, HOMER JOHN, A.B. Earlham 1904, A.M. 1908.....Millbrook, N. Y.  
*History*
- COTTON, SARAH JOHNSON, A.B. West Virginia 1901.....New York City  
*Indo-Iranian*
- COURTNEY, ARTHUR WILSON, A.B. C. C. N. Y. 1910.....New York City  
*English*
- COX, GEORGE BENSON, A.M. 1911, A.B. Western 1906.....New York City  
*Sociology, Social Economy*
- CRAIGHEAD, ELIZABETH M., Ph.B. Dickinson 1901.....Craighead, Pa.  
*English, Education*
- CRITCHLOW, RAY, A.B. Yale 1906.....New Rochelle, N. Y.  
*English*
- CROSSMAN, PETER FLOOD, Litt.B. Princeton 1911.....New York City  
*Chemistry*
- CRU, ROBERT LOYALTY, Equiv. Am. Paris 1909.....New York City  
*Romance*
- CUEVAS, ROSALIA DEL PILAR, A.B. Adelphi 1909.....New York City  
*Spanish*
- CUMBERLAND, WILLIAM WILSON, A.B. Occidental 1912.....New York City  
*Economics, History*
- CUMMING, ALEXANDER ..... New York City  
A.B. Michigan 1894, LL.B. Harvard 1902, A.M. 1903.  
*Sociology*
- CUSHING, MAX PEARSON, A.B. Bowdoin 1909.....New York City  
*History, Sociology*
- DAMERON, JULIA MANGUM, A.B. North Carolina 1908.....Warrenton, N. C.  
*Latin, Education*
- DARDEN, WILLIAM ARTHUR, A.B. North Carolina 1910.....Fremont, N. C.  
*English, Comparative Literature*
- DARGAN, MARION, A.B. Wofford 1909.....Little Rock, S. C.  
*History*
- DARLINGTON, GILBERT STERLING BANCROFT, A.B. 1912.....Harrisburg, Pa.  
*English, History*
- DARLINGTON, HENRY V. B., A.B. 1910.....Harrisburg, Pa.  
*Sociology*
- DARNTON, MAIDA C., B.L. California 1894.....New York City  
*English*
- DARR, JOHN WHITTIER, B.L. Ohio Wesleyan 1910.....New York City  
*Sociology*
- DARVAS, FRANZ, B.S. C. C. N. Y. 1909.....New York City  
*Philosophy, Psychology*
- DAVIDOWITZ, HARRY SOLOMON, B.S. 1910.....New York City  
*Arabic*
- DAVIS, HELEN BISSING, A.B. Nebraska 1911.....Lincoln, Neb.  
*Chemistry*
- DAVIS, KATHRINA MODE, A.B. Wellesley 1901.....Glens Falls, N. Y.  
*English, Education*
- DE BENKELAER, FRANK, A.B. Colgate 1910.....Bouckville, N. Y.  
*Chemistry*
- DELANO, GRACE, A.B. Adelphi 1907, A.M. 1909.....New York City  
*English, Comparative Literature*

- DELANY, MARY JOSEPHINE, A.B. St. Lawrence 1904.....New York City  
*Chemistry*
- DENNIS, PAUL GILL, A.B. Wesleyan 1910.....Madison, N. J.  
*Social Economy, Sociology*
- DEWEY, FREDERICK ARCHIBALD, B.S. Mass. Inst. Tech. 1910....Huntington, N. Y.  
*Sociology*
- DEXTER, JOHN SMITH, A.B. Ripon 1908, A.M. Wisconsin 1909.....Ashland, Wis.  
*Zoölogy, Botany, Geology*
- DICKSON, ARTHUR, A.M. 1911, B.S. C. C. N. Y. 1909.....New York City  
*Comparative Literature*
- DIMMICK, WILLIAM WARREN, A.M. 1911, LL.B. N. Y. Univ. 1906..Margaretville, N. Y.  
*English*
- DIMMITT, LILLIAN ENGLISH, A.B. Illinois Wesleyan 1888.....Jacksonville, Ill.  
*Latin, Education*
- DODGE, BAYARD, A.B. Princeton 1909.....New York City  
*History*
- DONHAM, HAZEL, A.B. Bates 1903.....Hebron, Me.  
*Biological Chemistry*
- DONOUGH, THOMAS SMITH, LL.B. Pennsylvania 1895.....New York City  
*Indo-Iranian*
- DONVAN, WALTER J., B.S. C. C. N. Y. 1908.....New York City  
*Biological Chemistry*
- DORR, LOWA MARIA, Ph.B. Cornell 1897.....New Rochelle, N. Y.  
*French*
- DOUGLASS, BEAMAN, M.D. 1886.....New York City  
*History*
- DRACHSLER, JULIUS, B.S. C. C. N. Y. 1902.....New York City  
*Sociology, Psychology*
- DRAPER, OTIS HERBERT, A.M. 1911, A.B. Johns Hopkins.....Havre de Grace, Md.  
*History, Philosophy*
- DREIHAUS, IRWIN WILLIAM, A.M. 1905, B.S. Cincinnati 1900.....Cincinnati, Ohio  
*Social Economy*
- DRURY, HORACE BOOKWALTER, A.B. Otterbein 1910.....Dayton, Ohio  
*Economics, Sociology*
- DUBOIS, PAUL EDWARD, B.S. Ohio Wesleyan 1912.....Cincinnati, Ohio  
*Sociology*
- DUNBAR, RALPH MCNEAL, A.B. George Washington 1912.....New York City  
*History, Sociology, Philosophy*
- DUNCAN, MARY E., A.B. Adelphi 1908.....New York City  
*Latin, History*
- DUNCAN, WILLIAM YOUNG, A.B. Yale 1910.....New York City  
*Sociology*
- DUNLAP, MAURICE PRATT, A.B. Princeton 1912.....Toledo, Ohio  
*Public Law*
- DUNN, WILLIAM EDWARD,.....Austin, Tex.  
A.B. Texas 1909, A.M. Leland Stanford, Jr. 1911.  
*History, Economics*
- DUNSEATH, SAMUEL G., A.M. 1911, A.B. Ursinus 1910.....New York City  
*Economics*
- DURFEE, CLAYTON G., B.S. 1905.....New York City  
*English*
- DUTCHER, EVA OLIVE, A.B. 1902.....New York City  
*Philosophy*
- DWIGHT, MARION EDITH, A.B. Smith 1910.....New York City  
*Philosophy*

- EASTMAN, MARJORIE MCCLINTOCK, A.B. 1908.....New York City  
*Comparative Literature*
- EDWARDS, GEORGE WILLIAM, A.B. C. C. N. Y. 1911.....New York City  
*History, Economics*
- EDWARDS, ISAAC NEWTON, A.B. South Carolina 1910.....Carthage, N. C.  
*History*
- EDWARDS, WILLIAM FRANKLIN LUXTON.....New York City  
A.B. McMaster 1908, A.M. 1909  
*History*
- EGERTON, FRANK NICHOLAS, JR., A.B. Trinity 1909, A.M. 1911....Louisburg, N. C.  
*Mathematical, Physics, Mathematics*
- EISENBERG, ISADORE, A.B. C. C. N. Y. 1911.....New York City  
*Economics, Public Law*
- ELDER, FRANK ROSE, B.S. Amherst 1911.....Amherst, Mass.  
*Chemistry*
- ELDER, JANE, A.B. Mt. Holyoke 1905.....Lewiston, Pa.  
*German*
- ELIOT, THOMAS D., A.B. Washington 1910, A.M. Pennsylvania 1912..Portland, Ore.  
*Social Economy, Economics*
- ELLIOTT, HARRIET W., A.B. Hanover 1910.....Carbondale, Ill.  
*History, Education*
- ELLISSON, ESTELLE JAMES, B.S. 1911.....New York City  
*Psychology*
- ELSON, CHARLES, A.B. Bucknell 1909, A.M. Harvard 1910.....Kane, Pa.  
*German, French, English*
- EMIN, AHMED, A.M. 1912.....Constantinople, Turkey  
*Sociology Economics, History*
- EMMONS, MARTHA, A.B. 1912.....New York City  
*English, French*
- EMMONS, WALTER JOHNSON, B.S. Brown 1912.....Arlington, R. I.  
*Highway Engineering*
- ENDERS, HENRY CORNELIUS, B.L. Cooper Union 1905.....New York City  
*Chemistry*
- EPSTEIN LOUIS M., B.S. 1911.....New York City  
*Philosophy, Semitics*
- EPSTEIN, MORRIS LOUIS, B.S. 1912.....New York City  
*Romance, English*
- ERDOFY, FRANCES VERA, A.B. N. Y. Normal 1911.....New York City  
*German*
- ESBERG, HELENE, A.B. N. Y. Normal 1911.....New York City  
*English*
- EVANS, JOHN ELLIS, A.B. Indiana 1910, A.M. 1911.....Brazil, Ind.  
*Psychology*
- EVANS, LILLIAN ELIZABETH, A.B. Mt. Holyoke 1906.....Pleasant Lake, Ind.  
*English, Education*
- EYLES, CLARA EMERY.....Newark, N. J.  
*History*
- FALES, HAROLD A., B.S. Polytechnic 1911.....New York City  
*Chemistry*
- FALK, DORA, A.B. 1904.....New York City  
*History*
- FALKE, LEOPOLD L.....New York City  
*Physiological Chemistry*
- FARIES, JOHN CULBERT, A.B. Minnesota 1889.....New York City  
*Social Economy, Sociology*



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*Romance*
- FARRANT, LOUISE G., A.B. 1893, A.M. N. Y. Univ. 1895. . . . . New York City  
*History*
- FARRINGTON, CHARLOTTE RAYNSFORD. . . . . Washington, D. C.  
A.B. George Washington 1909  
*History*
- FELTON, RALPH ALMOR, A.M. 1912, Ph.B. Southwestern 1905. . . . . Hydro, Oklahoma  
*Social Economy*
- FENN, IRWIN HENRY, E. E. Brooklyn Polytechnic 1908, M.S. 1910. . . . New York City  
*Mathematics*
- FERGUSON, JOHN DELANCEY, A.B. Rutgers 1911, A.M. 1902. . . . . Plainfield, N. J.  
*English, Spanish*
- FERGUSON, JOHN MAXWELL, A.M. 1909, A.B. Harvard 1908. . . . . New York City  
*Economics*
- FERNANDEZ, GRACIA LILIAN, A.M. 1912, B.S. Maine 1898. . . . . North Dexter, Me.  
*Romance, Comparative Literature*
- FISCHEL, SADIE GERTRUDE, A.B. N. Y. Normal 1909. . . . . New York City  
*Semitics*
- FISH, JOSEPH BURTON, B.S. C. C. N. Y. 1905. . . . . New York City  
*Zoölogy, Botany*
- FISHER, LIZETTE ANDREWS, A.M. 1912. . . . . New York City  
*Comparative Literature*
- FISK, DANIEL MOORE, B.S. 1910. . . . . New York City  
*Zoölogy, Anthropology*
- FITT, FRANK, A.B. Williams 1911. . . . . East Northfield, Mass.  
*Sociology*
- FITZGERALD, AARON BOYLAN, A.B. 1911, A.M. 1912. . . . . Dover, N. J.  
*History, Philosophy*
- FLAGG, LOUISE, A.B. Radcliffe 1902. . . . . New York City  
*History*
- FLANIGAN, SISTER HELEN CLARE, A.B. St. Elizabeth 1908. . . . . Convent Sta., N. J.  
*English*
- FOLWELL, ETHEL A., A.M. 1912, A.B. Peabody 1910. . . . . Nashville, Tenn.  
*Latin, Greek*
- FOOTE, JOHN PAUL, A.B. Adelphi 1908. . . . . New York City  
*History*
- FOOTE, ROBERT BONNER BOWLER, A.B. Kenyon 1896. . . . . New York City  
*Psychology, Education*
- FORBES, REBA E. . . . . New York City  
*Sociology*
- FORSYTHE, ROBERT STANLEY, A.M. 1909, B.L. Lincoln 1908. . . . . New York City  
*English, Comparative Literature*
- FOSTER, SARAH P., A.B. Wellesley 1898. . . . . New York City  
*History*
- FOX, ELSIE, A.B. N. Y. Normal 1905, M.D. Cornell 1911. . . . . New York City  
*German*
- FRANK, ADAM G., A.B. Washburn 1901, A.M. Princeton 1902. . . . . Brigham, Utah  
*Economics, Education*
- FRANK, JEANNETTE, A.B. N. Y. Normal 1912. . . . . Corona, N. Y.  
*Geology, Botany*
- FRANKE, CLARA ELSA, B.S. 1907, A.M. 1908. . . . . New York City  
*German*
- FRANKLIN, A. MILDRED, A.M. 1909, A.B. Wellesley 1904 . . . Atlantic Highlands, N. J.  
*Latin, Greek*
- FREDMAN, SAMUEL, A.B. Johns Hopkins 1909. . . . . Roanoke, Va.  
*Philosophy, Sociology*

- FRENCH, CLAYTON, T. A., A.B. N. Y. Univ. 1907.....New York City  
*Economics, Sociology, Public Law*
- FRERICHS, HARRISON, A.B. C. C. N. Y. 1910.....New York City  
*History, Public Law*
- FREYGANG, GUSTAV GEORGE, M.E. Stevens 1909.....Town of Union, N. J.  
*Mechanics, Physics*
- FRICKE, FRED JOHN HERMAN, A.B. Mich. State Normal 1912.....Dowagiac, Mich.  
*Mathematics, Chemistry*
- FRIESS, CHARLOTTE L., B.S. 1912.....New York City  
*German*
- FRISCH, EPHRAIM, A.B. Cincinnati 1903.....New York City  
*Semitics*
- FÜJITA, KWANTARO.....Tokushima, Japan  
*Constitutional Law*
- FRYE, LUCIUS ARNOLD, A.B. Minnesota 1907, A.M. 1908, B.C.L. 1911...St. Paul, Minn.  
*Public Law*
- GAILOR, FRANK HOYT, A.B. Univ. South 1912.....Memphis, Tenn.  
*English, Philosophy*
- GALT, MARY MEARES, A.B. Randolph Macon 1904.....Williamsburg, Va.  
*Romance*
- GAMMANS, HAROLD WINSOR, A.B. Harvard 1908.....Boston, Mass.  
*English*
- GARABEDIAN, HOHOANNES LAZARUS, A.B. Robert 1910.....New York City  
*Philosophy*
- DE GARMS, MARY CORA, A.B. Washington 1912.....St. Louis, Mo.  
*Chemistry, Education*
- GARTH, THOMAS RUSSELL, A.B. Denver 1909, A.M. 1910.....Denver, Colo.  
*Psychology, Education*
- GAVIN, HELEN, A.B. N. Y. Normal 1909.....New York City  
*Biological Chemistry*
- GEDDES, JOSEPH A., A.B. Brigham Young 1907.....Preston, Idaho  
*Public Law, Economics, History*
- GEER, HELENA, A.B. Cornell 1903.....New York City  
*German, French*
- GEIST, MARGARETE.....New York City  
*German*
- GEISS, M. H. MATILDA, A.B. Adelphi 1909.....New York City  
*Social Economy*
- GEORGE, DORA BLANCHE, A.B. Baylor 1912.....Belton, Texas  
*Economics, Sociology, History*
- GIGNOUX, ELISE MESSENGER, A.B. Bryn Mawr 1902.....Great Neck, N. Y.  
*Botany*
- GILBERT, GRACE RUSSELL, A.M. Cornell 1907.....Huntington, N. Y.  
*History*
- GILBERT, RUTH, A.B. Colorado 1907, A.M. 1910.....New York City  
*Zoölogy*
- GILDERSLEEVE, NELSON BURROUGHS, A.B. 1911.....New York City  
*English, Comparative Literature*
- GILLESPIE, JAMES PACKARD, A.B. 1905.....New York City  
*Sociology, Economics, History*
- GILMORE, DAVID PERCY, A.B. Princeton 1910.....New York City  
*Germanics*
- GILMORE, FLOY VICTORIA.....Manchester, Wash.  
 A.B. Washington 1910, LL.B. Michigan 1901  
*Social Economy, Sociology, Economics*

- GIRDNER, PENELOPE MORGAN, A.B. 1912.....New York City  
*Romance, English*
- GITTERMAN, ALICE, A.B. Smith 1891.....New York City  
*Sociology, Economics, Education*
- GLASSBERG, BENJAMIN, A.B. C. C. N. Y. 1910.....New York City  
*History*
- GOERTZ, MATILDA, A.B. N. Y. Normal 1912.....New York City  
*Mathematics*
- GOGIN, ELEANOR GERTRUDE, A.M. 1910, A.B. Vassar 1908.....Lowell, Mass.  
*History, Comparative Literature*
- GOLDENSON, SAMUEL HARRY, A.B. Cincinnati 1904.....Albany, N. Y.  
*Philosophy, History*
- GOLDMAN, AGNES, A.B. Bryn Mawr 1909.....New York City  
*Psychology, Anthropology*
- GOLDSMITH, BEATRICE, A.B. Adelphi 1906.....New York City  
*History*
- GOLDSTEIN, HERBERT SAMUEL, A.B. 1911.....New York City  
*Semitics, Philosophy*
- GOODHART, HELEN, A.B. 1907.....New York City  
*Social Economy*
- GOODSPEED, GERTRUDE CLIFF, A.B. Bates 1898.....New York City  
*Social Economy, Sociology*
- GOODWIN, ETHEL LIZZIE, A.B. 1909, A.M. 1910.....New York City  
*Economics, Psychology*
- GORDON, FRED MARSH, A.B. Bethany 1900, A.M. 1901.....New York City  
*History*
- GORDON, LOUIS, B.S. 1912.....Washington, D. C.  
*Mathematics*
- GORDON, MARGERLY, A.B. Cincinnati 1901.....Washington, D. C.  
*English*
- GRAHAM, SISTER MARY CLARA, Ph.B. Chicago 1909.....Convent Sta., N. J.  
*English*
- GRAY, CLAUDINE, A.B. N. Y. Normal 1897.....New York City  
*Romance*
- GRAY, JESSE MARTIN, A.B. Olivet 1904.....Blairstown, N. J.  
*Germanic*
- GRAY, VELMA FLORENCE, A.B. Michigan 1908.....New York City  
*English, Education*
- GREEN, ALEXANDER, A.M. 1911, A.B. C. C. N. Y. 1910.....New York City  
*Celtic*
- GREEN, GABRIEL MARCUS, B.S. C. C. N. Y. 1911.....New York City  
*Mathematics, Mechanics*
- GREEN, HOWARD CHARLES, A.B. C. C. N. Y. 1902.....New York City  
*History*
- GREENBERG, HYMAN.....New York City  
*Physics, Mathematics*
- GREVE, HARRIET CONE, A.B. Tennessee 1906.....Chattanooga, Tenn.  
*History*
- GRIFFING, JOHN B., A.B. Drake 1909.....Tecumseh, Kans.  
*Sociology*
- GROESBECK, KENNETH, A.B. C. C. N. Y. 1905.....New York City  
*English*
- GROSS, BEATRIX H., A.B. N. Y. Normal 1911.....New York City  
*Physiological Chemistry, Botany*
- GROSSMAN, BENJAMIN LENARD, A.B. Muhlenberg 1909.....New York City  
*Semitics*

- GROVES, JOSEPH, A.B. Trinity 1910.....New York City  
*Sociology*
- GUERIN, SISTER MARIE ELISE, A.B. St. Elizabeth 1903.....Convent Sta., N. J.  
*English*
- GUGGENHEIM, GRACE B.....New York City  
*History*
- GUSTAFSON, WALTER, A.B. Upsala 1912.....Kenilworth, N. J.  
*English, Comparative Literature*
- HAAG, FLORENCE GRANDON, A.B. Trinity 1912.....New York City  
*Latin, History, Education*
- HACKEDORN, MARION, A.B. Wesleyan 1898.....New York City  
*German*
- HAGAR, ETTA MABEL, B.S. Minnesota 1897.....Lawrence, Mass.  
*Philosophy*
- HAIGHT, HELEN IVES, A.B. Vassar 1898.....New York City  
*History*
- HALL, ALONZO CLEVELAND, A.B. Elon 1910.....Burlington, N. C.  
*English, Comparative Literature*
- HALL, JOHN OSCAR, A.B. Denver 1904, A.M. 1905.....Superior, Wis.  
*Sociology, Economics*
- HALL, MARION ERNEST, A.B. Houghton 1910.....Memphis, N. Y.  
*Philosophy*
- HALL, RAY O.....East Hamilton, Mass.  
*Economics, History*
- HAMILTON, MRS. F. M., A.B. Indiana 1897.....New York City  
*Sociology*
- HALLIDE, ERNEST MILTON, A.B. Michigan 1904.....Urbana, Ill.  
*English*
- HALLOCK, FRANCES A., A.B. Mt. Holyoke 1899.....New York City  
*Botany, Zoölogy*
- HAMBURGER, NANNETTE FRANCES, A.B. 1910.....New York City  
*Celtic*
- HANNAN, WALTER SHERLOCK, B.S. N. Y. Univ. 1910.....New York City  
*Physics*
- HARADA, TAMEZO, A.M. 1912, B.D. Drew Seminary 1910.....Japan  
*Philosophy*
- HARDING, FREDERICK CHARLES.....Yonkers, N. Y.  
*Oriental Languages*
- HARDY, RUTH GILLETTE, A.B. 1909.....New York City  
*History*
- HARKEY, TULA LAKE, A.B. Colorado 1909.....Birmingham, Ala.  
*Physiological Chemistry*
- HARMON, ESTHER, A.B. Michigan 1906, Ph.D. Bryn Mawr 1912.....New York City  
*German*
- HARRIGAN, MILDRED, A.B. Stanford 1910.....San Antonio, Texas  
*Mathematics, Mechanics, Education*
- HARRIS, NATHAN CONANT, B.S. Tufts 1912.....Auburn, Me.  
*Roman Law, Economics, History*
- HARTLEY, LYMAN R., A.B. N. Y. Univ.....New York City  
*Philosophy*
- HARTSHORNE, HUGH, A.B. Amherst 1907, A.M. Yale 1910.....Methuen, Mass.  
*Philosophy*
- HARTWELL, FRED WILLIAM, B.S. Syracuse 1905.....New York City  
*Biological Chemistry*
- HAYDEN, PHILIP MESERVE, A.B. Tufts 1903.....Tufts, Mass.  
*Romance*

- HAYES, CARY WALKER, A.B. Washburn 1909.....New York City  
*Social Economy*
- HAYS, BESSIE ROSA, A.B. Wellesley 1911.....New York City  
*English*
- HEADY, JOHN HENRY, A.B. Hobart 1901, A.M. Indiana 1908.....New York City  
*Sociology, Economics, Anthropology*
- HEALY, JOHN ROBERT, A.B. Harvard 1897, B.S. 1899.....New York City  
*Geology*
- HEALY, JOSEPH X., A.B. C. C. N. Y. 1912.....New York City  
*English*
- HEATON, HARRY CLIFTON, A.B. Yale 1907.....New York City  
*Romance, Philology*
- HECKER, JULIUS FRIEDRICH, A.B. German Wallace 1910.....New York City  
*Sociology, History, Economics*
- HEDGES, HARRIET HELOISE, A.B. Smith 1910.....Mansfield, Ohio  
*Social Economy*
- HEIDENIS, MIRIAM B., A.M. 1912, A.B. Normal 1911.....New York City  
*History, Sociology*
- HEILPRIN, MARION, A.B. 1912.....Washington, D. C.  
*Zoölogy, Botany*
- HELLMAN, MILO.....New York City  
*Zoölogy*
- HEPBURN, JOSEPH SAMUEL, B.S. Pennsylvania 1907.....Philadelphia, Pa.  
*Biological Chemistry*
- HENRY, HENRY C., A.B. C. C. N. Y. 1911.....New York City  
*English, Comparative Literature*
- HERRESHOFF, ANNA FRANCIS, A.B. 1911, A.M. 1912.....New York City  
*Mathematics*
- HERRING, HUBERT CLINTON, JR., A.B. Oberlin 1911.....New York City  
*Philosophy*
- HERRMANN, ALFRED, A.B. 1908, A.M. 1909.....New York City  
*German, English*
- HERRMANN, MAY THERESE, A.B. 1910.....New York City  
*History*
- HERZBERG, MAX JOHN, A.B. 1906.....Newark, N. J.  
*English*
- HICKS, CLARA KENNEDY, A.M. 1911, B.S. Mt. Holyoke 1892.....Scranton, Pa.  
*Botany*
- HILL, LESTER S., A.B. 1911.....Cleveland, Ohio  
*Mathematics, Mechanics*
- HILL, ROWLAND, A.B. Missouri 1911.....Madison, N. J.  
*Sociology, Philosophy*
- HINCKLEY, ALICE CORNELIA, B.S. 1912.....Washington, La.  
*Psychology*
- HINES, ALBERT BARKER, A.B. Allegheny 1910.....Pittsburgh, Pa.  
*Sociology, Psychology*
- HINES, JULIAN COLGATE, B.S. North Carolina 1905, A.M. 1908.....Sinnicksen, Va.  
*Mechanics*
- HINOHARA, JANSUKE, A.B. Trinity 1904, A.M. 1905.....Osaka, Japan  
*Philosophy*
- HIRSHLEIFER, LOUIS JUDSON, B.S. 1912.....New York City  
*Chemistry*
- HOCHDERFFER, MARY JOHNSTON, A.B. Toronto 1893.....Flagstaff, Ariz.  
*English*
- HODGES, MILDRED LIVINGSTON, A.B. 1912.....New York City  
*Latin*



- HOFFMANN, CHARLES J., JR., B.S. 1911.....New York City  
*English*
- HOFFMAN, MAX.....New York City  
*Semitics*
- HOFFMANN, PHEBE EDITH, A.B. 1912.....New York City  
*History*
- HOGUE, ALBERT ARISTA, Equiv. B.S. Virginia Mil. Inst. 1899.....New York City  
*English*
- HOGUE, MILDRED ALBRO, A.M. 1912, A.B. Goucher 1908.....New York City  
*Zoölogy*
- HOGUE, EDITH, B.S. Northwestern 1908.....Sodus, Mich.  
*German, English*
- HOKE, CALM MORRISON, A.B. N. Y. Normal 1908.....Palisade, N. J.  
*Chemistry*
- HOLLINGSHEAD, GEORGE GIVEN, Ph.B. Franklin 1907, Ph.M. 1910..Pleasant City, Ohio  
*Sociology, Economics, Anthropology*
- HOLLIS, IDA M., B.S. 1901.....New York City  
*History*
- HOOD, PAUL K., A.B. Marietta 1912.....Atlanta, Ga.  
*Agriculture, Botany*
- HOOKER, BERTHA HAMILTON, A.M. 1912, B.L. Converse 1906....Coahoma, Miss.  
*English, Education*
- HOOPER, WILLIAM THOMAS, A.B. Bishop's Canada 1908.....New York City  
*English*
- HOOVER, MERLE M., A.M. 1911, A.B. Lebanon Valley 1906...Chambersburg, Pa.  
*English*
- HOPE, IDA MAY, A.B. 1903.....New York City  
*Botany*
- HOPSON, ELIZABETH FULLER, A.M. 1911, A.B. Vassar 1905.....Bridgeport, Conn.  
*History*
- HOROWITZ, BENJAMIN, A.M. 1912.....New York City  
*Biological Chemistry, Education*
- HORTON, MARK MCKENDREE, A.B. 1912.....Nyack, N. Y.  
*English*
- HOUGH, HELEN DEXTER, A.B. Goucher 1907.....New York City  
*English*
- HOURIHAN, DANIEL BERNARD, B.S. 1912.....Winthrop, N. Y.  
*History*
- HOWARD, FLOARDA.....New York City  
*Sociology*
- HOWE, ALICE CLARA, A.B. Wellesley 1895.....Fayville, Mass.  
*Latin*
- HOWELL, RALPH WILLIAMS, B.S. 1912.....Washington, D. C.  
*Geology, Metallurgy*
- HUBERT, MARIE ROSALIE, A.B. Wesleyan 1901, A.M. 1902....New Britain, Conn.  
*Education*
- HUENE, AMELIA HERMINE, A.B. N. Y. Normal 1908.....New York City  
*Greek*
- HUGHES, HARVEY HATCHER, A.B. North Carolina 1907.....Yorkville, S. C.  
*Comparative Literature*
- HUGUENIN, CHARLES.....New York City  
*Romance*
- HUNTER, STANLEY ARMSTRONG, A.B. Princeton 1910.....Riverside, Calif.  
*Sociology*
- HURLBUTT, MARY E., A.B. Vassar 1912.....Stamford, Conn.  
*Social Economy*

- HUTTON, SARAH ELIZABETH, A.B. N. Y. Normal 1905.....New York City  
*Botany*
- HYDE, ISABELLA, A.B. Mt. Holyoke 1902.....New York City  
*Philosophy*
- HYDE, ROSCOE RAYMOND, A.B. and A.M. Indiana 1909.....Terre Haute, Ind.  
*Zoology, Chemistry*
- HYMAN, JOSEPH CHARLES, A.B. 1911.....New York City  
*History, Public Law*
- JACKSON, FRANCES HAMMER, A.B. Goucher 1908.....Roland Park, Md.  
*Mathematics, Botany*
- JACOBS, JOSEPH.....New York City  
*Physics*
- JAFFE, LOUIS R., A.B. C. C. N. Y. 1910.....New York City  
*History, Public Law*
- JAFFRAY, JULIA KIPPEN.....New York City  
*Social Economy*
- JÄGENDORF, MORITZ ADOLF.....New York City  
*English, Comparative Literature*
- JAGINTH, HAROLD C., B.S. Trinity 1911.....New York City  
*Sociology*
- JAKOBI, MRS. PAULA.....New York City  
*Philosophy, Sociology*
- JENNINGS, CORINNE MARIE, A.B. St. Elizabeth 1905.....New York City  
*English*
- JENSEN, JOSEPH, B.S. Utah 1908.....Salt Lake City, Utah  
*Geology*
- JEWELL, MARJORIE, A.B. Adelphi 1911.....New York City  
*English*
- JOCHINSEN, JOHN PETER, A.M. 1912, A.B. Lawrence 1911.....Appleton, Wis.  
*French*
- JOFFÉ, BETTY, B.S. 1911.....New York City  
*German, French*
- JOHNSON, LUCETTA PITNEY, A.B. 1907.....Morristown, N. J.  
*History, Latin*
- JOHNSON, MARY HOOKER, B.L. Smith 1897.....New York City  
*English*
- JONES, LESTER MARTIN, A.B. Baker 1909.....New York City  
*Sociology*
- JONES, MARGUERITE ELSIE, A.B. N. Y. Normal 1911.....New York City  
*English*
- JONES, NELLIE LUCRETIA, A.B. Wellesley 1908.....Merrimack, N. H.  
*Botany*
- JONES, WALTER ROYAL, B.S. Chicago 1909.....Chicago, Ill.  
*Mathematics*
- JOSEPH, SAMUEL, A.B. C. C. N. Y. 1902.....New York City  
*Sociology*
- JUD, FRIEDOLINA C., B.S. 1912.....Jersey City, N. J.  
*Geology*
- KAHN, ALFRED H., A.B. Yale 1908.....New York City  
*Hebrew, Philosophy*
- KAHN, LINA, A.M. 1909.....New York City  
*Philosophy*
- KAINE, JOSEPH M., B.S. N. Y. Univ. 1911.....New York City  
*Botany*
- KAMIYA, SEIJI, A.B. Waseda 1907.....Shidzuoka, Japan  
*Economics, Public Law*

- KAPP, KATHARINE SUSANNA, A.B. Minnesota 1905.....Dubuque, Ia.  
*English*
- KATZ, ANNA, A.B. N. Y. Normal 1912.....New York City  
*History*
- KATZ, MILTON, B.S. C. C. N. Y. 1911.....New York City  
*Botany*
- KAUFMAN, REUBEN, A.M. 1912, A.B. Clark 1911.....Worcester, Mass.  
*History*
- KAVANAGH, EDWARD JOHN, A.B. St. Peters 1897, A.M. 1898.....New York City  
*Latin*
- KEARNEY, MARGARET ELLEN.....Pittsfield, Mass.  
*English*
- KEELEY, EMMA MATTESON, A.B. N. Y. Normal 1906.....New York City  
*English*
- KELLAM, HARRY M., A.B. Kenyon 1912.....New York City  
*Economics, Social Economy*
- KELLS, LYMAN MORSE, A.B. Minnesota 1910.....Sauk Center, Minn.  
*Mathematics, Education*
- KELLY, JAMES PETER, B.S. C. C. N. Y. 1906.....New York City  
*Botany*
- KEMP, WILLIAM CULLEN BRYANT, A.B. 1900, A.M. 1901, LL.M. 1901..New York City  
*Chemistry, Geology, Architecture*
- KENDALL, BURTON WARREN, B.S. Mass. Inst. Tech. 1906.....Gardner, Mass.  
*Physics*
- KENNERLY, MARTHA MASON, B.S. Adelphi 1903.....White Post, Va.  
*Protozoology*
- KESSLER, GEORGE WALTER, A.B. Pennsylvania 1908.....Sac City, Iowa
- KING, EDITH BRUEN, A.B. N. Y. Normal 1911.....New York City  
*English, Social Economy*
- KING, GUY BEAVER, A.B. Pennsylvania 1908, A.M. 1911.....Fairfield, Pa.  
*English*
- KING, MARIE BERNADETTE, A.B. 1909.....Upper Montclair, N. J.  
*English*
- KING, PHILIP COATES, A.B. Oberlin 1910.....Oberlin, Ohio  
*Sociology*
- KINGSLAND, GERTRUDE SOUTHWICK, Ph.B. Hamline 1888, A.M. 1912..Freeborn, Minn.  
*English*
- KIRK, CHARLES TOWNSEND.....Yonkers, N. Y.  
A.B. Oklahoma 1904, A.M. 1905, Ph.D. Wisconsin 1911  
*Metallurgy*
- KIRSCHSTEIN, MORRIS, B.S. C. C. N. Y. 1911.....New York City  
*Mechanics, Mathematics, Physics*
- KITTREDGE, ELIZABETH A., A.B. Vassar 1912.....Vineyard Haven, Mass.  
*Physics, Chemistry*
- KIVLEN, MAUDE DOLORES, A.B. N. Y. Normal 1909.....New York City  
*Social Economy, History*
- KLEIN, ARTHUR JAY, A.M. 1912, A.B. Wabash 1906.....Elkhart, Ind.  
*History*
- KLEIN, LEOPOLD, A.B. 1910.....New York City  
*German, Education*
- KLIGLER, ISRAEL JACOB, B.S. C. C. N. Y. 1911.....New York City  
*Chemistry*
- KNAPP, ANNIE MARY, Ph.B. Syracuse 1892.....Binghamton, N. Y.  
*History*
- KNIPPING, JOHN ROESER, A.B. Cornell 1910.....New York City  
*History*
- KOBAYASHI, RYOKICHI, Equiv. A.B. Higher Commercial Japan 1907....Kobe, Japan  
*Economics, Sociology, History*

- KOEHLER, HENRY REUBEN, A.B. Lafayette 1910.....Hazleton, Pa.  
*Education*
- KOJIMA, SHIGEO, A.B. St. Pauls Japan 1912.....Tokyo, Japan  
*Philosophy, Chinese*
- KOSS, ISABEL GLEN, A.B. 1912.....New York City  
*History, German*
- KRAMER, BENJAMIN JOSEPH, A.M. 1912, B.S. C. C. N. Y. 1911.....New York City  
*Chemistry, Physics*
- KREINER, HARRY PETER.....Newark, N. J.  
*English*
- KREINER, LILLIAN MAY, B.S. 1910.....Newark, N. J.  
*English*
- KUANG, YING CHIEH .....Hong Kong, China  
*Mining, Metallurgy*
- KURZ, HARRY.....New York City  
*French, German*
- KURZ, MICHAEL, A.B. C. C. N. Y. 1912.....New York City  
*French*
- KUSCHKE, JOHN L., A.B. Cornell 1909.....Plymouth, Pa.  
*German*
- LAKE, DYER B., B.S. Syracuse 1909, M.S. 1910.....White Creek, N. Y.  
*Agriculture, Chemistry*
- LAKEMAN, CURTIS EDMUNDS, A.B. Harvard, 1904, A.M. 1905.....New York City  
*Social Economy*
- LAMBERT, PAULA C., A.B. 1912.....New York City  
*History*
- LAMONT, FLORENCE, A.M. 1898, B.S. Smith 1893.....Englewood, N. J.  
*Philosophy*
- LAMPORT, ANNA, A.B. N. Y. Normal 1909.....New York City  
*Mathematics*
- LAMPRECHT, STERLING POWER.....Cleveland, Ohio  
A.B. Williams 1911, A.M. Harvard 1912  
*Philosophy*
- LANDES, MARGARET WINIFRED, A.B. Wellesley 1911.....New York City  
*Philosophy*
- LANDSMAN, CHARLES M.....New York City  
A.B. C. C. N. Y. 1902, LL.B. N. Y. Univ. 1906  
*Mathematics*
- LANDY, GEORGE, A.B. C. C. N. Y. 1912.....New York City  
*Economics, Sociology, Public Law*
- LANGTON, WILLARD S., B.S. Utah Agricultural 1896.....Logan, Utah  
*Mathematics*
- LAPOLLA, GARIBALDI MARIO, A.B. 1910, A.M. 1912.....New York City  
*Italian, Sociology*
- LATHAM, MARIA LOUISE, A.M. 1908, B.S. North Carolina 1900.....New York City  
*Mathematics*
- LATHAM, MINOR WHITE, A.M. 1912, A.B. State College for Women 1901.Hernando, Miss.  
*English, Comparative Literature*
- LAU, ROBERT FREDERICK, A.B. 1908, A.M. 1910.....New York City  
*Semitics*
- LAUBACH, FRANK CHARLES, A.M. 1910, A.B. Princeton 1909.....Benton, Pa.  
*Sociology*
- LAUBE, HERBERT DAVID, B.L. Wisconsin 1903, A.M. Michigan 1911..Brodhead, Wis.  
*Public Law, History*
- LAUBER, ALMON WHEELER, Ph.M. Syracuse 1905.....New York City  
*History*
- LAWRENCE, JULIAN SUMNER, A.B. Richmond 1912.....Churchland, Va.  
*Economics, Public Law, History*

- LAWTON, MAXWELL FRANCIS, A.B. 1904.....New York City  
*History*
- LEBENDIGER, ISRAEL.....New York City  
*Hebrew, Philosophy*
- LEE, MARGUERITE THOURON, B.S. Cornell 1894, A.M. N. Y. Univ. 1905..New York City  
*Biological Chemistry*
- LEE, PORTER RAYMOND, A.B. Cornell 1903.....New Rochelle, N. Y.  
*Social Economy*
- LEISTNER, IDA, A.B. N. Y. Normal 1912.....New York City  
*German*
- LELAND, SAMUEL ROBB.....Madison, N. J.  
*English*
- LEMÉE, SISTER LOUISE MARIE, A.B. St. Elizabeth 1911.....Convent Sta., N. J.  
*Romance*
- LESOURD, HOWARD MARION, A.B. Ohio Wesleyan 1911.....West Carrollton, Ohio  
*Sociology, Economics*
- LEUCHS, FREDERICK A. H., A.B. 1907, A.M. 1908.....New York City  
*German*
- LEVINE, MICHAEL, A.M. 1910, B.S. C. C. N. Y. 1906.....New York City  
*Botany*
- LEWIN, WILLIAM, A.B. N. Y. Univ. 1911.....Newark, N. J.  
*English*
- LEWINSOHN, MAURICE M.....New York City  
*Economics*
- LEWIS, ALBION BAYARD, A.B. Bates 1906.....New York City  
*Mathematics, Education*
- LEWIS, ELSIE HERRICK, B.S. Elmira 1907.....Tappan, N. Y.  
*Social Economy*
- LEWIS, ERNEST DORMAN.....New York City  
A.B. Stanford 1892, A.M. 1893, A.M. Harvard 1897  
*History*
- LEWIS, MAMIE JAY, A.M. 1912, A.B. Smith 1911.....Charlotte, N. C.  
*English*
- LEWIS, M. SMYSER, A.M. 1912, B.S. Pennsylvania 1911.....York, Pa.  
*Chemistry*
- LIEBOWITZ, BENJAMIN, E.E. 1911.....New York City  
*Physics*
- LIEN, ARNOLD JOHNSON, A.B. Minnesota 1908, A.M. 1909.....Delavan, Minn.  
*Public Law, Economics*
- LIFF, JOSEPH, B.S. 1912.....New York City  
*Zoology, Botany*
- LILLY, CHARLES CASTNER, A.B. Harvard 1909.....Waldoboro, Maine  
*Sociology*
- LINEHAN, PAUL HENRY, A.B. 1902.....New York City  
*Mathematics*
- LITSKY, ROSE, A.B. N. Y. Normal 1912.....New York City  
*German*
- LITTLE, FRANCIS KINZER, A.B. Western Maryland 1905.....New York City  
*History, Greek*
- LOCKE, BENJAMIN HARRISON, A.B. Harvard 1912.....Baltimore, Md.  
*Sociology*
- LOCKWOOD, HELEN D., A.B. Vassar 1912.....Rochester, N. Y.  
*History, Philosophy, Education*
- LOGAN, HENRY, A.B. Dickinson 1910, A.M. 1912.....York, Pa.  
*History*
- LONG, DAISY.....New York City  
*Botany*



- LONG, DORIS, A.B. 1910, A.M. 1911.....New York City  
*English*
- LONG, SHIRLEY VIRGINIA, A.B. Florida State 1907, A.M. 1908.....Memphis, Tenn.  
*English*
- LORD, MARY ELIZABETH, A.B. 1907.....Allston, Mass.  
*Botany*
- LOTZ, ELSA, B.S. 1912.....New York City  
*German*
- LOUIS, EVANGELINE INEZ, A.B. N. Y. Normal 1912.....New York City  
*English*
- LOVE, HARRY M., A.B. N. Y. Univ. 1909.....New York City  
*English*
- LOWTHER, FLORENCE DE LOUVILLE, A.B. 1912.....New York City  
*Zoology*
- LOWY, ALEXANDER, B.S. 1911, A.M. 1912.....New York City  
*Chemistry*
- LÜKEN, HINRICH HERMANN OTTO.....New York City  
*Economics*
- LUNDGREN, JOHAN ALFRED, A.B. Upsala 1909.....Kenilworth, N. J.  
*English*
- LUSKIN, ISRAEL, A.B. Syracuse 1912.....New York City  
*Semitics*
- LY, JUWAN USANG.....Canton, China  
*Economics, Public Law, Social Economy*
- LYNCH, CLARA JULIA, A.M. 1912, B.L. Smith 1903.....Canton, Ohio  
*Zoology, Chemistry*
- LYNCH, HAROLD ARTHUR, A.B. Washington 1910.....New York City  
*Philosophy*
- LYON, DARWIN OLIVER, A.M. 1908.....Mt. Vernon, N. Y.  
*Psychology*
- LYON, LORENZO GRENVILLE.....New York City  
A.M. 1910, A.B. Princeton 1892, A.M. 1895  
*Latin*
- LYONS, JOHN RAMBO, A.M. 1912, A.B. James Milliken 1910.....New York City  
*Philosophy*
- McCLEES, HELEN, A.B. Ohio State 1910.....Columbus, Ohio  
*Latin, Greek*
- McCORMICK, MYRTLE ELIZABETH, B.S. 1910.....New York City  
*English, Education*
- McCURRY, D. ERNEST, A.M. 1912, A.B. Missouri Valley 1909.....New York City  
*Sociology, Economics*
- McCUTCHEON, H. LOUISE, A.B. Vassar 1895.....New York City  
*Education*
- MCDANIEL, JAMES ERSKINE, A.B. Erskine 1909.....Due West, S. C.  
*English, Comparative Literature*
- McEWEN, ROBERT STANLEY, A.B. Western Reserve 1911, A.M. 1912..Cleveland, Ohio  
*Sociology, Economics*
- McGAVOCK, ABIGAIL JOUET, A.B. Randolph Macon 1899, A.M. 1900.Max Meadows, Va.  
*Psychology, Philosophy*
- McGAVOCK, MARY BELL, B.S. 1912.....Max Meadows, Va.  
*English, Education*
- MCGILL, NETTIE PAULINE, A.B. Goucher 1912.....Washington, D. C.  
*English, History, Education*
- MCGRATH, JULE GRACE, A.B. N. Y. Normal 1911.....New York City  
*Geology*
- McKENZIE, ISABEL, A.B. 1912.....East Orange, N. J.  
*History*

- McKINNEY, MARY EULA, A.B. Ohio State 1906.....Montclair, N. J.  
*English*
- McLEAN, EARL REGINALD, A.B. Toronto 1908.....Palmerston, Ont., Can.  
*Social Economy*
- McLAUGHLIN, WILLIAM GERALD.....Jersey City, N. J.  
LL.B., A.M. 1911, A.B. St. Francis 1907  
*Corporations*
- McMACKIN, FRANK J., B.S. 1912.....Philadelphia, Pa.  
*Mathematics, Mechanics*
- McLEAN, DONALD CHARLES, A.B. C. C. N. Y. 1906.....New York City  
*Mathematics*
- MA, YIN CH'U, A.B. Yale 1910.....Shanshing, China  
*Economics, Public Law*
- MACAULEY, FREDERICK ROBERTSON.....Montreal, Canada  
A.B. Colorado 1908, A.M. LL.B. 1911  
*Economics, Sociology*
- MACK, MARGARET ELIZABETH, B.S. Nevada 1910.....Dayton, Nev.  
*Zoölogy, Physiology, Education*
- MACKLIN, EGBERT CHALMER, A.B. Indiana 1911.....Bryant, Ind.  
*Physiology*
- MACKZUM, HENRIETTA MARIE, A.B. Cincinnati 1909, A.M. 1910.....Cranford, N. J.  
*History*
- MACLACHLAN, CATHERINE FISHER, A.B. Toronto 1904, A.M. 1905.....Toronto, Can.  
*English*
- MACMAHON, ARTHUR W., A.B. 1912.....Lyndhurst, N. J.  
*History, Sociology*
- MAGARY, ALVIN EDWIN.....South Orange, N. J.  
*Sociology*
- MAHLER, ANNA BELLE, B.S. 1912.....New York City  
*Comparative Literature*
- MAHNKEN, ANNA H., A.B. N. Y. Normal 1909.....New York City  
*English*
- MALCOMSON, MALCOLM D., Chem.E. 1910.....Orange, N. J.  
*Chemistry, Physics*
- MANDEL, BERTHA ELIZABETH, A.B. N. Y. Normal 1912.....New York City  
*Comparative Literature, English*
- MANLEY, ALMA T., A.B. Kansas 1909.....Cherrycroft, Junction City, Kans.  
*English*
- MANNING, CLARENCE AUGUSTUS, A.B. 1912.....New York City  
*Greek, Latin*
- MARCONI, JANETTE VINCENTIA, A.B. N. Y. Normal 1912.....Westchester, N. Y.  
*French*
- MARGOLIS, ELIAS, A.B. Cincinnati 1900.....New York City  
*Semitics*
- MARSHALL, JOSEPHINE ADELAIDE, A.B. Vermont 1901.....New York City  
*English*
- MARTIN, HARRIET GOODRICH, A.B. Smith 1899.....New York City  
*English*
- MARTIN, THEODORE DAY, A.B. Hamilton 1911, A.M. 1912.....Manti, Utah  
*Philosophy, Psychology, History*
- MARX, OLGA, B.S. N. Y. Univ. 1907, A.M. 1908.....New York City  
*English*
- MARY, BEATRIX K., A.M. 1912, A.M. Michigan 1904.....Lansing, Mich.  
*English, Latin*
- MASSBACH, JEANETTE S., A.B. N. Y. Normal 1912.....New York City  
*English*
- MATTHEWS, ELLEN NATHALIE, A.B. Radcliffe 1909, A.M. 1912.....Boston, Mass.  
*Sociology, History, Economics*

- MAYER, THERESA, A.B. 1911.....New York City  
*History*
- MAYERS, LEWIS, A.B. C. C. N. Y. 1910, A.M. Wisconsin 1912.....New York City  
*Public Law*
- MEADOX, LEWIS ELBERN, Ph.B. Chicago 1910.....Cassville, Mo.  
*Public Law, Economics*
- MEHLER, ELSA SAUTER, A.B. 1912.....New York City  
*History*
- MERRILL, GEORGE ABBOT, A.B. Colgate 1910.....Rahway, N. J.  
*Public Law*
- MERRILL, RAY MARCH, A.B. Williams 1905, A.M. California 1909...Kansas City, Mo.  
*Romance*
- MESICK, JANE LOUISE, A.B. Mt. Holyoke 1909.....Hudson, N. Y.  
*English*
- MESSINGER, HELEN ALTHEA, A.B. N. Y. Normal 1905.....New York City  
*Mathematics*
- METZ, CHARLES WILLIAM, B.S. Pomona 1911.....Sheridan, Wyoming  
*Zoölogy*
- MEYER, CARL LUDWIG WILHELM, A.M. 1912, A.B. Michigan 1910..Kalamazoo, Mich.  
*International Law, History, Sociology*
- MIDDLETON, FLORENCE, B.S. 1910.....New York City  
*Botany*
- MILLER, ALICE DUER, A.B. 1899.....New York City  
*Mathematics*
- MILLER, MAY IRENE, A.B. Smith 1907.....Stamford, Conn.  
*History*
- MINER, CLARENCE EUGENE, A.B. C. C. N. Y.....New York City  
*History*
- MINER, ROY WALDO, JR., A.B. Williams 1897.....New York City  
*Zoölogy, Geology*
- MINER, WALLACE HERMAN, A.B. Alleghany 1907.....Madison, N. J.  
*Chinese, Indo Iranian*
- MITCHELL, BENJAMIN ERNEST.....Nashville, Tenn.  
A.B. Morristown 1900, A.M. Vanderbilt 1908  
*Mathematics, Mechanics*
- MITCHELL, GRAHAM JOHN, B.S. Oregon 1912.....New York City  
*Geology*
- MIZUTANI, KÜCHI, B.C. Waseda 1907.....Shizuoka, Japan  
*Economics, Public Law, History*
- MOLLOY, FLORENCE, A.B. Miss. State 1893.....Columbus, Miss.  
*English*
- MONTGOMERY, SARAH LOUISE.....Jeffersonville, Ind.  
*Psychology*
- MOOK, CHARLES C., B.S. 1912.....Metuchen, N. J.  
*Geology, Zoölogy*
- MOON, EVANGELINE A., A.B. N. Y. Normal 1906.....New York City  
*Geology*
- MOORE, GARRIE WARD.....Genoa, Fla.  
*Sociology*
- MORDECAI, LUCILE, A.B. 1912.....New York City  
*English*
- MORGAN, ALBERT RUFUS, A.B. North Carolina 1910.....Murphy, N. C.  
*Sociology, Economics*
- MORGAN, CHARLOTTE ELIZABETH.....New York City  
A.B. 1904, Ph.D. 1910, A.M. Radcliffe 1906  
*English*
- MORGAN, JOHN J. B., A.B. Taylor 1911.....Madison, N. J.  
*Psychology, Philosophy, History*

- MORREY, WILLIAM THOMAS, A.M. 1893, A.B. Ohio State 1888.....New York City  
*History*
- MORRELL, PENELOPE PATTEN, A.B. Vassar 1886.....New York City  
*Latin*
- MORRIS, FREDERICK KÜHNE, A.M. 1910, B.S. C. C. N. Y. 1904.....New York City  
*Zoölogy*
- MORRIS, MAY JOSEPHINE, A.M. 1910, A.B. N. Y. Normal 1902.....New York City  
*Geology*
- MORRISON, HARRY LLOYD, A.B. Toronto 1909.....Brockville, Ont., Can.  
*Sociology, Education*
- MORTON, IRA ABBOTT, A.B. Mt. Union 1903.....New York City  
*Psychology*
- MOSES, ROBERT, A.B. Yale 1909, A.B. Oxford 1912.....New York City  
*Public Law, Economics*
- MUESER, FREDERICK ALFRED, A.B. C. C. N. Y. 1907.....New York City  
*German*
- MULLANEY, ERMINIE, A.B. N. Y. Normal 1910.....Maywood, N. J.  
*German*
- MULLER, ADA HERMINIE, A.B. 1908.....New York City  
*English*
- MULLINS, GEORGE WALKER, A.B. Arkansas 1904.....Fayetteville, Ark.  
*Mathematics*
- MURKLAND, MARIE, A.B. Smith 1906, A.M. 1908.....E. Middlebury, Vt.  
*Philosophy*
- MUROVCHIK, RACHEL BELKIN.....New York City  
*Sociology, Economics*
- MURPHY, ALBERT J., A.B. N. Y. Univ. 1912.....New York City  
*Philosophy*
- MURPHY, EDITH N., A.B. N. Y. Normal 1911.....New York City  
*English*
- MURPHY, JAMES JOSEPH, B.S. Michigan 1907.....Detroit, Mich.  
*Highway Engineering*
- MURRAY, ROBERT CORNELIUS, A.M. 1912, A.B. Amherst 1910....Herkimer, N. Y.  
*History*
- MUSGRAVE, EDITH, A.B. Normal 1911.....New York City  
*English*
- MYERS, ELEANOR, A.B. 1912.....New York City  
*English, Comparative Literature*
- NEFF, CLARENCE ALVIN, Ph.B. Wooster 1907.....Bucyrus, Ohio  
*Education*
- NEIDLE, MARKS, A.M. 1912, B.S. C. C. N. Y. 1911.....New York City  
*Chemistry, Physics*
- NELMS, WILLIAM S., A.B. Southwestern 1903, A.M. 1904.....New York City  
*Mathematical Physics*
- NESBIT, WILLIAM MAISIGLIA, A.B. 1902, A.M. 1907.....Basking Ridge, N. J.  
*Semitics*
- NEUHALL, ALBERT HITCHINGS, A.B. Harvard 1898, A.M. 1899.....New York City  
*Social Economy*
- NEUMAN, ABRAHAM AARON, B.S. 1909, A.M. 1912.....New York City  
*History*
- NEUMANN, HENRY, Ph.D. N. Y. Univ. 1906.....New York City  
*Philosophy*
- NEUN, DORA ESTELLE, B.S. Rochester 1912.....Rochester, N. Y.  
*Chemistry, Bacteriology*
- NICHOLS, CLARA T. ....New York City  
*History*

- NICHOLSON, FLORENCE MAY, A.B. Dakota Wesleyan 1908.....East Orange, N. J.  
*English, Comparative Literature*
- NILES, ELLA C. J.....Madison, N. J.  
*History*
- NOLAN, WILLIAM J., A.B. N. Y. State Normal 1908.....New York City  
*History, Social Economy*
- NOLL, WALTER LEROY, B.S. Bucknell 1908.....Newark, N. J.  
*Zoölogy*
- NORTHROP, JOHN HOWARD, B.S. 1912.....New York City  
*Chemistry*
- NOWAK, ABRAHAM, B.S. C. C. N. Y. 1910.....New York City  
*Sociology*
- NOWLAN, FREDERIC STANLEY, A.B. Acadia 1908, A.M. Harvard 1909..New York City  
*Mathematics*
- NYE, BERTHOLD HINTZ, A.B. 1909.....Yonkers, N. Y.  
*Public Law*
- OATMAN, MIRIAM EULALIE, A.B. Oberlin 1912.....Mount Holly, N. J.  
*Sociology, Social Economy, History*
- O'BRIEN, JOSEPHINE GERTRUDE, A.B. 1909.....New York City  
*Latin*
- O'BYRNE, MICHAEL ALOYSIUS, Ph.B. St. Francis 1893.....New York City  
*Celtic*
- O'CONNELL, MARJORIE.....New York City  
*Geology, Botany*
- ODAM, GEORGE A., A.B. Texas 1909.....Greenville, Texas  
*Philosophy, Education*
- O'DONNELL, AGNES TERESA, A.B. 1910.....New York City  
*German*
- O'DONNELL, MARGARET M. A., A.B. 1910.....New York City  
*German*
- OELLRICH, PAULA FRIEDA, A.B. 1912.....East Orange, N. J.  
*German*
- OFFNER, OLGA, A.B. N. Y. Normal 1911.....New York City  
*English, Comparative Literature*
- OLCOTT, ELIZABETH BARKER.....New Canaan, Conn.  
*Sociology*
- O'LEARY, REV. PATRICK.....New York City  
*Sociology, Social Economy*
- OLLER, MARIE, B.L. Smith 1903.....New York City  
*English*
- ORR, LAURA CARRINNE Ohio State 1911.....Wellsville, Ohio  
*English*
- OSBORN, ALGERNON ASHBURNER, A.B. Harvard 1905.....Newark, N. J.  
*Economics, Sociology, History*
- OSGOOD, MARIAN STICKNEY, A.B. Mt. Holyoke 1912.....New York City  
*History*
- OSTER, JOHN EDWARD, Litt.B. Ohio Northern 1908, LL.B. 1909.....New York City  
*Public Law*
- OTTO, CHARLES FRANCIS, A.B. Adelphi 1912.....New York City  
*History, Public Law*
- PACKARD, ESTHER, A.B. Smith 1911.....Oak Park, Ill.  
*Social Economy*
- PAGE, IRMA BROWN, Ph.B. Boston 1898.....New York City  
*Philosophy, History*
- PALMER, EDNA ADELINE, A.B. 1910.....New York City  
*History, German*
- PARELHOFF, BERNARD MARK, A.B. Johns Hopkins 1907.....New York City  
*Public Law, History*



- PARK, JOSEPH H., A.B. 1912.....Port Murray, N. J.  
*History, Economics*
- PARSONS, ALICE L. L., B.S. Smith 1897.....New York City  
*English*
- PARSONS, EMMA THERESA, A.B. Shurtliff 1904.....Chicago, Ill.  
*Social Economy*
- PARSONS, LLEWELLYN S.....New York City  
*Philosophy*
- PASTEL, EVELYN, A.B. N. Y. Normal 1911.....New York City  
*English*
- PAYNE, OWEN STREET.....New York City  
*Public Law*
- PAYNTER, RICHARD HENRY, 3RD, A.B. 1912.....New York City  
*Psychology*
- PEARSON, PHILIP COOMBS, B.S. Mass. Inst. Tech. 1902.....Ridgewood, N. J.  
*Philosophy*
- PEART, EDWARD NEWTON, Ph.B. Oskaloosa 1912.....New York City  
*Philosophy*
- PEDRICK, FRANKLIN BURCHE, A.B. Johns Hopkins 1909.....Washington, D. C.  
*Psychology*
- PERLMAN, DAVID H., A.M. 1912, A.B. C. C. N. Y. 1910.....New York City  
*English*
- PERRY, EDWARD OWEN, A.B. Hamilton 1903.....New York City  
*History*
- PERRY, WILLIAM GILMER, A.B. Davidson 1898, A.M. 1900.....Atlanta, Ga.  
*English, Comparative Literature*
- PERRY, WILLIAM H., A.B. Syracuse 1908.....New York City  
*History*
- PETERS, IVA LOWTHER, A.B. Syracuse 1901.....Fishkill, N. Y.  
*Sociology*
- PETERSON, ARTHUR EVERETT, A.B. Tufts 1892, A.M. 1897.....So. Coventry, Conn.  
*History*
- PHILLIPS, HUBERT, A.B. Chattanooga 1908.....Dayton, Ohio  
*History*
- PHILLIPS, WALTER CLARKE, Ph.B. Brown 1902.....La Fayette, R. I.  
*English, Comparative Literature*
- PHILP, MARY ISABEL, A.M. 1906.....Chateaugay, N. Y.  
*Philosophy*
- PICK, THEKLA, A.M. 1910.....New York City  
*German, French*
- PIERCE, ELIZABETH DENNY, A.B. Vassar 1910, A. M. 1912.....Englewood, N. J.  
*History, Greek*
- PIERSON, WILLIAM WHATLEY .....River Falls, Ala.  
A.M. 1912, A.B. Alabama 1910, A.M. 1911  
*History, Sociology*
- PLANER, CLARA HELENE, B.S. 1910.....Hoboken, N. J.  
*Germanics*
- PLATT, ROSETTA FRANCES, A.B. 1910.....New York City  
*Romance*
- PLAUT, EDWARD, A.B. Princeton 1912.....New York City  
*Chemistry*
- POLANSKY, THEODORE ARTHUR, B.S. A. & M. Texas 1909.....Smithville, Texas  
*Highway Engineering*
- POPE, HELENE MAUD, A.B. Mt. Holyoke 1904.....Passaic, N. J.  
*Biological Chemistry*
- PORTER, ALEXANDER MURRAY, A.B. Dalhousie 1909.....Alma, N. S., Can.  
*Social Economy*

- PORTER, GEORGE H. ....New Philadelphia, Ohio  
*Public Law*
- POTWINE, ELIZABETH BARTLETT, A.B. Mt. Holyoke 1901.....East Windsor, Conn.  
*Mathematics*
- POWELL, ALMA WEBSTER.....New York City  
Mus. B. 1910, A.M. 1911, LL.B. N. Y. Univ. 1911  
*Sociology, Economics*
- POWELL, ANNIE MARION, A.B. Sweet Briar 1910.....Wytheville, Va.  
*History, English*
- POWELL, MARY ANNIE, A.B. Missouri.....Troy, Mo.  
*History*
- PRENTISS, HENRIETTA, A.B. Smith 1902, M.S. Iowa 1907.....New York City  
*Zoölogy*
- PRICE, JULIUS JOSEPH, A.M. 1912, A.B. Pennsylvania 1908.....New York City  
*History*
- PRINCE, ELIZA V., A.B. Wells 1912.....New York City  
*Comparative Literature, English*
- PROCTOR, CRISSY K., A.B. Trinity 1908.....New York City  
*Sociology*
- PROUTY, THEODORE R., B.S. Mass. Inst. Tech. 1912.....Scituate, Mass.  
*History*
- QUACKENBUSH, ELIZABETH, Ph.B. Wisconsin 1911, Ph.M. 1912....Pittsburgh, Pa.  
*History*
- QUACKENBOS, GEORGE PAYN, A.B. 1900, A.M. 1901.....New York City  
*Indo-Iranian*
- QUIGG, HELEN TOWNSEND, A.B. Goucher 1904.....Ridgely, Md.  
*German*
- RASZEWSKI, GABRIELLE, A.B. N. Y. Normal 1912.....New York City  
*Comparative Literature, English, French*
- RAVITCH, MAX, A.B. Missouri 1909, A.M. 1910.....New York City  
*English*
- RAY, FREDERICK.....Short Hills, N. J.  
*Mechanics, Physics*
- RAYMOND, STOCKTON, A.B. Ohio State 1905.....Columbus, Ohio  
*Social Economy*
- READY, ELIZABETH P., A.B. 1912 .....Jersey City, N. J.  
*English*
- REICHLING, GERARD ALSTON, A.B. 1908.....New York City  
*German*
- REID, EVA CHRISTIE, A.B. Minnesota 1904.....South Minneapolis, Minn.  
*English*
- REID, KATHERINE W., A.B. Vassar 1912.....Mt. Vernon, N. Y.  
*Botany*
- RENTON, MARGARET, A.B. 1910.....New York City  
*Public Law*
- REYNA, LAMBERTO L., A.B. St. Louis 1908.....Manila, P. I.  
*Public Law, Sociology, Psychology*
- RICE, WINFIELD LAWRENCE, A.B. Dartmouth 1903.....New York City  
*History*
- RICHARDSON, WILLIAM C., A.B. Cornell 1899.....New York City  
*Latin*
- RICKER, RAYMOND CRAVER, B.S. Illinois 1900.....Madison, N. J.  
*Chinese*
- RICKETTS, RAYMOND W., A.B. Ohio Wesleyan 1911.....Dayton, Ohio  
*Sociology*
- RIEGELHUTH, KATE, A.B. Nevada State 1897.....Reno, Nev.  
*German, Education*

- RIGGS, GAYLORD, C.E. Princeton 1912.....Elmira, N. Y.  
*Highway Engineering*
- RIGGS, ROLAND ROGERS, Equiv. A.B. U. S. N. A. 1904.....Washington, D. C.  
*Public Law*
- RILEY, MORGAN THOMAS, A.B. Yale 1907.....New York City  
*Sociology, Economics*
- RISCHBIETER, THEODORE WILLIAM.....New York City  
*Economics*
- RITT, HAROLD LOPIDES, B.S. 1911.....New York City  
*English, Philosophy*
- RITTMAN, WALTER FRANK.....Sandusky, Ohio  
C.E. Ohio Northern 1905, A.M. Swarthmore 1909  
*Chemistry*
- RIVKIN, MAY ERNA, A.B. 1911.....New York City  
*Sociology*
- ROBBINS, EDWIN CLYDE, A.B. Iowa 1910, A.M. 1912.....Cedar Rapids, Ia.  
*Economics*
- ROBESON, FRANK LEIGH, B.S. Va. Polytechnic 1904, M.E. 1905....Farmville, Va.  
*Mathematics, Astronomy*
- ROBINSON, ALICE M., A.B. Mt. Holyoke 1895, A.M. 1901.....New York City  
*Mathematics*
- ROBINSON, FRANCES ALBERTA, A.B. Toronto 1912.....Morpeth, Ont., Can.  
*History*
- ROCHE, JOSEPHINE ASPINWALL, A.B. Vassar 1908.....Denver, Colo.  
*Social Economy*
- ROCKWOOD, EDITH, A.B. Minnesota 1909.....Minneapolis, Minn.  
*Sociology, Economics*
- RODERICK, OWEN M.....Jackson, Ohio  
*Jurisprudence, History*
- ROGERS, ELIZABETH FRANCES, A.B. Goucher 1912.....Madison, N. J.  
*History Sociology, Economics*
- ROGERS, ISABEL MITCHELL, A.B. Bryn Mawr 1911.....Yonkers, N. Y.  
*Chemistry*
- ROLL, ROSE, A.B. N. Y. Normal 1909.....New York City  
*Mathematics*
- ROMIG, EDGAR FRANKLIN, A.B. Franklin and Marshall 1911.....Allentown, Pa.  
*Sociology*
- ROONEY, FRANK JOSEPH, A.B. Villa Nova 1906, A.M. 1908.....New York City  
*English*
- ROOT, EVA ROSALIE, A.B. Cornell 1902.....Skaneteles, N. Y.  
*English*
- ROOT, MINNIE R., A.B. St. Lawrence 1902.....New York City  
*English*
- ROGERS, ELIZABETH FRANCES, A.B. Goucher 1912.....Madison, N. J.  
*History, Sociology*
- ROSE, SAMUEL EUGENE, A.B. Meridian 1911.....Madison, N. J.  
*Sociology*
- ROSENBLATT, BERNARD A., A.B. 1907, A.M. 1908, LL.B. 1909.....New York City  
*Sociology, Economics*
- ROSENGARTEN, ISAAC, A.B. C. C. N. Y. 1908.....New York City  
*Latin*
- ROSENTHAL, BLANCHE, A.M. 1910, A.B. N. Y. Normal 1909.....New York City  
*Social Economy, Economics*
- ROSENTHAL, JEROME.....New York City  
*Germanics, English, Philosophy*
- ROSS, AUBREY COSSON, A.B. Missouri Valley 1912.....Atlanta, Mo.  
*Sociology*

- ROSS, FRANK ALEXANDER, Ph.B. Yale 1908.....No. Woodbury, Conn.  
*Sociology, History*
- ROSS, WILLIAM NEELY, A.B. 1911, A.M. 1912.....Troy, N. Y.  
*History*
- ROTHROCK, LAWRENCE ELWOOD, A.B. Wesleyan 1912.....Ackermanville, Pa.  
*Philosophy*
- ROUNDS, DORA M., A.M. 1910, A.B. Wellesley 1896.....New York City  
*English*
- RUSHMORE, ELSIE MITCHELL, A.M. 1908, A.B. Vassar 1906.....New York City  
*History*
- RUSSELL, HELEN GERTRUDE, A.B. Mt. Holyoke 1902.....New York City  
*Chemistry*
- RUSSO, JOSEPH LOUIS.....Summit, N. J.  
*French*
- RYAN, BERTHA MAY, A.B. Wellesley 1911.....New York City  
*Comparative Literature*
- RYERSON, MARGERY AUSTEN, A.B. Vassar 1906.....Morristown, N. J.  
*Education*
- SACHS, ABRAHAM S.....New York City  
*Agriculture, Chemistry, Economics*
- SAFIR, SHELLEY RAY, A.B. C. C. N. Y.....New York City  
*Zoölogy, Botany*
- SAIDLA, LEO ERVAL, A.B. Wabash 1909.....New York City  
*Philosophy, Psychology*
- SAKAMOTO, YOSHIHARU.....New York City  
*Economics, Sociology*
- SALOMON, ALICE L., A.B. 1908.....New York City  
*History*
- SALWEN, DOROTHY, A.B. 1911.....New York City  
*History, Public Law*
- SALZMAN, MARCUS, A.B. Cincinnati 1893.....Wilkes-Barre, Pa.  
*Semitics, Philosophy*
- SANDERSON, AMON F., A.B. Oskaloosa 1891.....Bloomfield, Iowa  
*Social Economy, Sociology*
- SANFORD, FERDINAND D., A.B. Princeton 1909.....New York City  
*Social Economy*
- SAPIRO, DAVID, B.S. 1912.....New York City  
*Zoölogy, Botany*
- SARACHEK, JOSEPH.....New York City  
*Semitics*
- SAVAGE, MARION DUTTON, A.B. Wellesley 1908.....Newburyport, Mass.  
*Social Economy*
- SCHACHTER, MAURICE FRANK, B.S. 1912.....New York City  
*Bacteriology, Botany*
- SCHERRER, ROBERT PAUL, A.B. Franklin and Marshall 1912.....New York City  
*Sociology*
- SCHLIFFER, WILLIAM HENRY, Jr., A.B. Adelphi 1911.....New York City  
*Chemistry*
- SCHLUCTER, EDGAR RICHARD, A.B. Washington 1911.....Quincy, Ill.  
*History*
- SCHMIDT, CLARA EMMA, A.B. Adelphi 1910.....New York City  
*German*
- SCHONBERG, MAX, A.B. 1907.....New York City  
*History*
- SCHRAMM, EDWARD, Chem.E. 1909, B.S. C. C. N. Y. 1906.....New York City  
*Chemistry, Physics*
- SCHUTZ, META ELIZABETH, A.B. Adelphi 1906.....New York City  
*History*

- SCHWARTZ, BENJAMIN, A.B. C. C. N. Y. 1911.....New York City  
*Zoölogy, Botany*
- SCHWARZTRAUER, ERNEST EDWARD, A.B., Miami 1912.....Somerville, Ohio  
*Sociology, Economics*
- SCHWEIS, ETTA MAY, A.B. 1912.....New York City  
*German, French*
- SCHWEITZER, DAVID J., B.S. C. C. N. Y. 1912..... New York City  
*Social Economy*
- SCOFIELD, GEORGE HAMILTON, A.B N. Y. Univ. 1911..... New York City  
*Jurisprudence*
- SCOTT, HENRY MILLER, A.B. Nebraska 1909, A.M. 1911.....New York City  
*Sociology, Economics*
- SCOTT, REGINALD H., B. D. Berkeley Divinty School 1903.....New York City  
*Philosophy*
- SCOTT, WILFORD H., A.B. Christian 1905.....Columbia, Mo.  
*History*
- SEESHOLTZ, ANNA GROH, B.L. Western Reserve 1904.....Canton, Ohio  
*Social Economy*
- SEIPT, HOWARD ANDERS, A.B. Harvard 1906, A.M. 1910.....West Point, Pa.  
*Philosophy*
- SELIGMAN, ISRAEL, B.S. C. C. N. Y. 1906 .....New York City  
*English*
- SETTLEMYER, CHARLES S., A. B. Drake 1902, A.M. 1903.....Nanking, China  
*Economics, Education*
- SEVERANCE, GEORGE HENRY, A.B. Middlebury 1908.....New York City  
*Philosophy*
- SHEARS, LAMBERT ARMOUR, A.B. 1912.....New York City  
*German*
- SHELLEY, GEORGE LEROY, A.B. Union 1907, A.M. 1909.....East Orange, N. J.  
*Public Law, Education*
- SHEPARD, LAURA JOSEPHINE.....Bethel, Conn.  
*Sociology, History, Economics*
- SHERIDAN, JOSEPH AUGUSTINE, B.E. Cooper 1907 .....New York City  
*Mathematics*
- SHERMAN, LILLIE MARGARET, B.L. California 1909.....Berkeley, Cal.  
*Social Economy*
- SHERMAN, WARREN ANDREW, A.B. Brown 1911 .....Wickford, R. I.  
*History*
- SHERWOOD, HERBERT FRANCIS.....New York City  
*Social Economy*
- SHERWOOD, WILLIAM TINSLEY, A.B. St. Stephens 1911.....New York City  
*Sociology*
- SHIELDS, THOMAS ARTHUR, A.B. Moravia 1912.....Port Washington, Ohio  
*Economics, History*
- SHILOTRI, PRABHAKER S., A.M. 1909, A.B. Cornell 1908.....New York City  
*Economics, Sociology*
- SHIMATANI, RYOSUKE, A.B. Waseda 1909.....Yamaguchiken, Japan  
*Public Law, Economics, History*
- SHOUSE, MARY ARMSTRONG, B.S. Georgetown 1896.....Lexington, Ky.  
*English*
- SHOWERS, RALPH WALTER, A.B. Susquehanna 1908..... Rutherford, N. J.  
*Psychology*
- SHUKRI, AHMED.....Nicosia, Cyprus  
*Sociology, Economics*
- SHULTZ, BIRL E., A.M. 1911, A.B. DePauw 1909..... Union City, Ind.  
*History*



- SHUMWAY, WALDO, A.B. Amherst 1911.....New York City  
*Zoölogy*
- SICELOFF, JOHN A., A.B. 1911.....Fayette, Mo.  
*Sociology*
- SIEGRIST, MARY, B.S. 1912.....Lebanon, Pa.  
*English*
- SIMPSON, CHARLES GAMBLE, B.Ph. Cornell 1895, A.M. 1902.....New York City  
*Mathematics*
- SIMPSON, HELEN, A.B. Vassar 1912.....New York City  
*History*
- SKIPP, HENRY JOHN, A.M. 1910, A.M. Denison 1904.....New York City  
*German*
- SLOSSON, PRESTON WILLIAM, B.S. 1912.....New York City  
*History, Economics*
- SMAIL, LLOYD LEROY, A.B. Washington 1911, A.M. 1912.....New York City  
*Mathematics*
- SMERLING, FRANK ABRAHAM, B.S. C. C. N. Y. 1910.....New York City  
*English Philosophy*
- SMITH, BARRY C., A.B. Yale 1899.....New York City  
*Social Economy*
- SMITH, CATHERINE B., B.S. N. Y. Univ.....New York City  
*Latin, Education*
- SMITH, EMILIE C. P.....New York City  
*Romance*
- SMITH, FLORENCE MARY, A.B. Illinois 1899, A.M. 1906.....New York City  
*English*
- SMITH, FRANK DRAKE, B.S. 1911.....New York City  
*Physiology, Woodworking*
- SMITH, KATHRYN, A.B. Ohio State 1911.....New York City  
*Psychology, Philosophy*
- SMITH, LESLIE BREWSTER, A.B. 1905.....Mt. Vernon, N. Y.  
*Education*
- SMITH, WARREN SLOCUM, B.S. Washington 1912.....New York City  
*Geology, Chemistry*
- SOCKMAN, RALPH WASHINGTON, A.B. Ohio Wesleyan 1911.....New York City  
*History, Public Law*
- SOKOHL, JACOB NATHANIEL, B.S. 1912.....New York City  
*Economics, Social Economy*
- SOLOMON, HYMAN, A.B. C. C. N. Y. 1911.....New York City  
*Semitics, Sociology*
- SOUDER, EDMUND LLOYD, A.B. Harvard 1910.....Philadelphia, Pa.  
*Sociology*
- SPANIER, SAMUEL, A.B. C. C. N. Y. 1912.....New York City  
*History*
- SPARE, BERNICE Y., A.B. Lafayette 1911.....New York City  
*Sociology*
- SPARKS, THOMAS A., A.B. 1912.....New York City  
*History*
- SPEAR, DOROTHY ALICE, A.B. 1912.....New York City  
*English*
- SPRINGER, ADA, A.M. 1908.....New York City  
*Zoölogy, Bacteriology*
- SPRINGER, ALLAN PAUL, A.B. 1912.....New York City  
*Philosophy, History*
- SPRUNG, SABINA, A.B. N. Y. Normal 1907.....New York City  
*English*

- STAIR, BIRD WILLIAMS, B.S. Purdue 1899, M.S. 1901.....New York City  
*English*
- STAMM, CAROLINE L., B.S. 1909, A.M. 1910.....Mt. Vernon, N. Y.  
*Philosophy*
- STANLEY, CHARLES ALFRED, A.B. Marietta 1901.....Marietta, Ohio  
*Chinese*
- STARK, MARY BERTHA, Ph.B. Hamline 1902, Ph.M. 1904.....Harris, Minn.  
*Zoölogy*
- STAUFFER, VERNON, A.M. 1913, A.B. Hiram 1901.....New York City  
*History*
- STEBBINS, CHARLES MAURICE, A.B. Amherst 1892.....New York City  
*English*
- STEBBINS, HOMER ADOLPH.....Syracuse, N. Y.  
Ph.B. 1906, Ph.M. 1907, LL.B. 1908.  
*History*
- STEBBINS, MRS. HOMER ADOLPH, A.B. 1908, A.M. 1909.....New York City  
*Economics, History*
- STEHMAN, EARL LANDIA, A.B. Franklin & Marshall 1912.....Rohrerstown, Pa.  
*Sociology*
- STEINMETZ, WILLIAM GEORGE.....New York City  
*History*
- STEVENS, MARY SYDNEY, A.B. Adelphi 1909.....Scarsdale, N. Y.  
*Latin*
- STEWART, GEORGE BENJAMIN, A.B. Bethany 1897, B.D. Chicago 1907..Dayton, Ohio  
*Philosophy*
- STIMSON, DOROTHY, A.B. Vassar 1912.....New York City  
*History, Education*
- STONE, EDWARD COLLINS, A.B. Yale 1904, A.M. Trinity 1905.....Hartford, Conn.  
*Chemistry*
- STORRS, MARION, A.B. Mt. Holyoke 1900.....Mansfield Center, Conn.  
*Chemistry, Education*
- STOWELL, WILLARD A., B.S. 1912.....Trenton, N. J.  
*Botany*
- STRADER, WILLIAM WELLER, B.S. 1910.....West Hoboken, N. J.  
*Mathematics*
- STRAUSS, PRESTON F., A.B. Franklin and Marshall 1909.....Freemansburg, Pa.  
*Sociology*
- STREESEMAN, ADELE EMILY, A.B. N. Y. Normal.....Riverdale, N. Y.  
*Physics*
- STREET, LUCY JANE, A.B. Randolph Macon 1908.....New York City  
*History*
- STREUSAND, IRA, B.S. N. Y. Univ. 1912.....New York City  
*Philosophy, History, Economics*
- STUNTZ, CLYDE BRONSON, A.B. Wesleyan 1910.....Madison, N. J.  
*Indo-Iranian*
- STURTEVANT, ALFRED HENRY, A.B. 1912.....Kushla, Ala.  
*Zoölogy, Botany*
- SUFFERN, ARTHUR E., A.M. 1910.....Corning, N. Y.  
*Economics*
- SUKOFF, ARTHUR MAURICE, B.S. C. C. N. Y. 1909.....New York City  
*Mathematics*
- SUNDERLAND, FLORENCE, A.B. Michigan 1903.....New York City  
*English Education*
- SURREY, N. M. MILLER, B.S. Chicago 1904, A.M. Wisconsin 1909.....New York City  
*History*
- SUZUKI, KOJI.....Nūgata, Japan  
*Philosophy*

- SWAN, EDITH J., B.S. 1910.....New York City  
*Social Economy*
- SWAYNE, EDITH NEAL, A.B. Swarthmore 1912.....West Chester, Pa.  
*English, Anthropology*
- SYLVESTER, IRENE WATERS, A.B. Mt. Holyoke 1911.....Passaic, N. J.  
*Economics, Sociology*
- SYMONDS, ELEANOR LOUISE, A.B. N. Y. Normal 1911.....New York City  
*Geology*
- TALBOT-JONES, ANDREW DICKSON, A.B. Johns Hopkins 1904.....New York City  
*Romance*
- TALLMAN, LAVINIA, A.B. Vassar 1904.....East Orange, N. J.  
*Psychology, Education*
- TANNER AGENOR HENRY, A.M. 1912, LL.B. McGill 1906....Westmount, P. Q., Can.  
*Romance, Law and Comparative Jurisprudence*
- TAPLIN, EARL GARFIELD, B.S. 1905.....New York City  
*Mathematics*
- TAYLOR, JOHN THOMPSON, A.B. Wofford 1908, A.M. Vanderbilt 1912....Saluda, S. C.  
*English, Comparative Literature*
- TAYLOR, MARY SNYDER, A.B. Cornell 1902.....Leonia, N. J.  
*History*
- TERRILL, NINA B., A.B. Western Reserve 1909.....Cleveland, Ohio  
*Social Economy*
- THACKERAY, MARY JOSEPHINE, A.B. Adelphi 1901.....New York City  
*Comparative Literature, English*
- THALER, ALWIN, A.B. Adelphi 1912.....New York City  
*English*
- THOMAS, ELIZABETH WILKINS, A.B. Vassar 1912.....New York City  
*English*
- THOMPSON, ANNIE SAYRE, A.B. Michigan 1895.....Yonkers, N. Y.  
*History*
- THOMPSON, ARTHUR HENRY, B.S. Colgate 1907.....Utica, N. Y.  
*Mathematics*
- THOMPSON, MRS. EDITH MARSHALL, A.B. Radcliffe 1900.....New York City  
*Mathematics*
- THOMPSON, WARREN SIMPSON,.....University Place, Neb.  
A.B. Nebraska Wesleyan 1907, A.M. Nebraska 1911  
*Sociology, Economics*
- THOMSON, MYRTLE E., A.B. Syracuse 1894.....New York City  
*History*
- TICE, MRS. SABRA COLBY, A.B. 1907.....New York City  
*Zoölogy*
- TIMMINS, WILLIAM JUDSON.....New York City  
*Public Law*
- TITUS, EUNICE EVELYN, Ph.B. Syracuse 1902.....Binghamton, N. Y.  
*English, Social Economy*
- TODD, JOHN R., A.B. Dickinson 1887, A.M. 1890.....Aberdeen, Md.  
*History*
- TOMPKINS, ELIZABETH MARIE, A.B. Vassar 1899.....Poughkeepsie, N. Y.  
*Zoölogy*
- TOMPKINS, NANNA M., A.B. Vassar 1894.....Poughkeepsie, N. Y.  
*History*
- TOWART, WILLIAM GEORGE, A.B. Colgate 1909.....New York City  
*Sociology*
- TOWNSEND, SCHUYLER MALLORY, A.B. Syracuse 1908.....West Hoboken, N. J.  
*English*
- TREBEIN, BERTHA ELEANOR, A.B. Wellesley 1897, A.M. 1906.....Xenia, Ohio  
*Germanics*

- TRENCH, RUTH, A.B. 1909.....New York City  
*English*
- TRIMBLE, HENRY BURTON.....Ocean View, Va.  
A.B. Roanoke 1907, B.D. Vanderbilt 1911  
*Sociology*
- TRIPLETT, GRANVILLE HAMPDEN.....Shepherdstown, W. Va.  
A.B. Washington and Lee 1903, A.M. Princeton 1904, LL.B. N. Y. Univ.  
1911, J.D. 1912  
*Public Law, Jurisprudence*
- TROTTIER, THEOPHILE, B.S. 1910.....New York City  
*French*
- TSUI, KWO PAO, Ph.B. Yale 1912.....Tientsin, China  
*Metallurgy, Mining*
- TUCKER, DONALD SKEELE.....Colorado Springs, Colo.  
A.B. Colorado 1906, A.M. Williams 1912  
*Economics, Public Law*
- TUER, JOHN ARCHIBALD, A.B. Toronto 1909, A.M. 1910.....Mitchell, Ont., Can.  
*Semitics*
- TURNER, VIRGIL ERRETT, A.B. Ohio Wesleyan 1910.....Madison, N. J.  
*Sociology, Economics*
- TUTTLE, HARVEY N., Ph.B. Syracuse 1912.....Troy, N. Y.  
*Social Economy*
- TYSON, LEVERING, A.M. 1911, A.B. Pennsylvania 1910.....Reading, Pa.  
*Economics, Sociology*
- ULRICH, FREDERICK, A.B. Washburn 1910.....Topeka, Kans.  
*Sociology*
- UMACENY, LILLIE A., A.B. N. Y. Normal 1902.....New York City  
*Botany*
- URDANG, HARRY.....New York City  
*English*
- VALET, EDITH MOORE, A.B. 1912.....New York City  
*Greek, Latin*
- VANN, WILLIAM HARVEY, A.B. Wake Forest 1907.....Raleigh, N. C.  
*English*
- VAN TUYL, FRANCES MAURICE, A.B. Iowa 1911, M.S. 1912.....West Point, Ia.  
*Geology, Chemistry*
- VAN WERT, SUSAN EVENS, A.B. Cornell 1898.....New York City  
*Greek*
- VEEDER, LYMAR BRADT, A.M. 1912, A.B. Princeton 1910.....Utica, N. Y.  
*Economics, Public Law*
- VIGNERON, MARCEL HENRI, B.S. 1912.....New York City  
*Romance, Economics*
- WADDINGTON, MARY, A.B. 1899.....New York City  
*Philosophy*
- WALDRON, ALBERT LADD, A.B. Harvard 1902.....Somerville, Mass.  
*Germanics*
- WALKER, ALICE, Ph.B. St. Lawrence 1890.....Paterson, N. J.  
*Psychology*
- WALKER, EMMA, A.B. Adelphi 1909.....New York City  
*History*
- WALKER, MARY N., A.B. St. Lawrence 1889.....Tarrytown, N. Y.  
*Psychology*
- WALLER, PHOEBE MARSHALL, B.S. 1908.....Maysville, Ky.  
*English, Comparative Literature*
- WALSER, THEODORE J., A.B. Union 1910.....Cohoes N. Y.  
*Sociology*

- WALTON, ALFRED GRANT, A.B. Oberlin 1911.....Kalamazoo, Mich.  
*Sociology*
- WALTON, JOSEPH BARNARD, A.M. 1908, A.B. Pennsylvania 1905..Kalamazoo, Mich.  
*Sociology*
- WANG, CHENG-FU, A.M. 1912.....Tientsin, China  
*Metallurgy, Mining*
- WANG, CHÜN HAO, A.B. Pei-Yang China 1910.....Tientsin, China  
*Metallurgy, Chemistry*
- WANG, YON CHANG TSENSHAN, B.S. Chicago 1910.....Shanghai, China  
*Geology, Chemistry*
- WARE, EDITH ELLEN, A.M. 1908, A.B. Goucher 1905.....Baltimore, Md.  
*History, Sociology*
- WARWICK, VENI A., A.B. Adelphi 1911.....New York City  
*English*
- WASHBURN, GEORGE ADRIAN, A.B. Ohio State 1907.....New York City  
*History, Public Law*
- WATTERS, FLORENCE ADA, A.B. Smith 1911.....New York City  
*Zoölogy, Bacteriology*
- WATTS, HENRY FAIRFIELD, A.B. Washburn 1908.....New York City  
*History*
- WAXMAN, MEYER, A.M. 1912, A.B. N. Y. Univ. 1911.....New York City  
*Philosophy, Semitics, Sociology*
- WEEKES, ERNEST JOSEPH, A.B. Hamilton 1908.....New York City  
*Education*
- WEEKS, ESTELLA TERRY, B.S. 1906.....New York City  
*Sociology, History*
- WEI, WEN PIN, A.B. Peking 1908, A.B. Amherst 1910, A.M. 1911....New York City  
*Economics, Sociology*
- WEINER, MEYER, B.S. C. C. N. Y. 1907.....New York City  
*Mathematics*
- WEIR, HOWARD ROBERT, A.B. Hiram 1907.....Warren, Ohio  
*English*
- WEISMAN, CHARLES, B.S. C. C. N. Y. 1900, M.S. 1902.....New York City  
*Chemistry*
- WEISS, NINA HENRIETTA, A.B. Wellesley 1911.....New York City  
*History*
- WELLS, CLARA, A.M. 1911, A.B. N. Y. Normal 1909.....New York City  
*Physics, Mechanics*
- WEST, CHARLOTTE C., M.D. Woman's Medical 1894.....New York City  
*Psychology*
- WESTON, ARTHUR JAMES, A.B. Lehigh 1904, A.M. Yale 1905.....East Orange, N. J.  
*English*
- WHEELER, ISABEL, A.B. Vassar 1904.....Toledo, Ohio  
*Zoölogy, Bacteriology*
- WHENMAN, LUCY M., A.B. Colby 1907.....Houlton, Maine  
*Social Economy*
- WHICHER, GEORGE FRISBIE, A.M. 1911, A.B. Amherst 1910....Middle Haddam, Conn.  
*English, Comparative Literature*
- WHITE, EDITH GRACE, A.B. Mt. Holyoke 1912.....Allston, Mass.  
*Zoölogy, Physiology*
- WHITE, SARAH PARKER, M.D. N. Y. Medical 1911.....Watervliet, N. Y.  
*Philosophy*
- WHITE, STEPHEN S.....Madison, N. J.  
*Sociology*
- WHITE, WILLIAM FOSTER, Jr., B.S. Pennsylvania State 1912.....New York City  
*Geology, Chemistry*



- WHITEFORD, ROBERT CALVIN, A.B. C. C. N. Y. 1912.....New York City  
*English, Comparative Literature*
- WHITEHURST, HAROLD, A.B. North Carolina 1903.....Newbern, N. C.  
*History*
- WHITELAW, WILLIAM MENZIES, A.B. Toronto 1910.....Toronto, Can.  
*History*
- WHITNEY, MAY ALICE, A.B. Michigan 1903.....Emporia, Kans.  
*History, Public Law*
- WICK, JEANNETTE MAGDALEN, A.B. 1904.....Matawan, N. J.  
*Sociology, History*
- WUEST, EDWARD, A.B. George Washington 1912.....New York City  
*Economics, History*
- WIGGINS, ROBERT LEMUEL, Jr., A.B. Emory 1903, A.M. Vanderbilt 1907..Atlanta, Ga.  
*English*
- WILLIAMS, HENRY EARNEST, A.B. Boston 1909.....Quincy, Mass.  
*Chemistry*
- WILLIAMS, JOHN WESLEY, A.B. Dickinson 1909, A.M. 1911.....Madison, N. J.  
*Sociology, Economics*
- WILLIAMS, JUDITH BLOW, A.B. Vassar 1912.....New York City  
*History*
- WILLIAMS, LEWIS D., Ph.B. Baldwin 1909.....Setauket, N. Y.  
*Sociology*
- WILLIAMS, MARJORIE, Ph.B. Denison 1905.....Rochester, Ind.  
*Social Economy*
- WILLIAMS, MARY EMMA, Ph.B. Wesleyan 1899.....New York City  
*Latin*
- WILLIAMSON, MARY, A.B. Hollins 1897.....New Market, Va.  
*English, History*
- WILMOT, MABEL ESTHER, A.B. Cornell 1908.....New York City  
*History*
- WILSON, ELIZABETH SOPHIA, A.B. Smith 1901.....Churchville, Pa.  
*Physics, Chemistry*
- WILSON, GUY WEST.....Greencastle, Ind.  
B.S. DePauw 1902, A.M. 1903, M.Sc. Purdue 1906  
*Botany, Chemistry*
- WILSON, SALLIE EGERTON, A.B. Lake Forest 1903.....Lincoln, Neb.  
*Latin, Education*
- WINN, PHILIP BIRD, A.M. 1911, B.S. Natl. Norwich 1892.....Talbotton, Ga.  
*Mechanics, Mathematics*
- WINSLOW, ADA BINFORD, A.M. 1911, A.B. Va. Wesleyan 1892.....Manchester, Ga.  
*Latin, Greek*
- WINSTON, ALICE, A.B. Chicago 1898, A.M. 1903.....Lawrence, Kansas  
*English, Comparative Literature*
- WINSTON, HELEN FRAZER, A.B. Washington 1912.....Ft. Worth, Texas  
*Sociology, Economics*
- WIRTH, CHARLES ADOLPHUS, A.M. 1911, A.B. C. C. N. Y. 1908.....New York City  
*Botany, Chemistry*
- WOLF, MORRIS, A.B. 1912.....Philadelphia, Pa.  
*History*
- WOLFF, SOLOMON, A.B. C. C. N. Y. 1908.....New York City  
*Mathematics*
- WOMACK, MARY DOUGLAS, A.M. 1912, A.B. Adelphi 1899.....New York City  
*Botany*
- WOOD GEORGE ARTHUR, A.B. Amherst 1906.....East Whately, Mass.  
*History*
- WOOD, MARY MORTON, A.B. Chicago 1905, A.M. Radcliffe 1906.....New York City  
*Comparative Literature, Romance*

WOODBURY, WALTER BLIGH, A.M. 1909.....	Oneida, N. Y.
<i>Celtic</i>	
WOODLEY, HARRIS C., A.B. Wofford 1907.....	Dawson, Ga.
<i>History</i>	
WOODRUFF, MABELLE, B.S. 1906.....	Passaic, N. J.
<i>History</i>	
WORTHINGTON, KATHERINE STEWART, A.B. Goucher 1908.....	New York City
<i>English</i>	
WORTMANN, JOHANNA, A.B. Adelphi 1910.....	New York City
<i>German</i>	
WRIGHT, ELIZABETH CURTIS, A.B. Smith 1910.....	Bridgeport, Conn.
<i>Social Economy</i>	
WRIGHT, KENNETH W., B.S. C. C. N. Y. 1903.....	New York City
<i>English</i>	
WRIGHT, MARGARET C., A.M. 1910, A.B. Vassar 1908.....	Pleasantville, N. Y.
<i>History, Social Economy</i>	
WUNDERLICH, ELSA PAULINE, A.B. 1912.....	Tarrytown, N. Y.
<i>German, Philosophy</i>	
WYCKOFF, HARRIET ELVIRA, B.S. 1906.....	New York City
<i>History</i>	
YAMAKAWA, YOSHIHIRO, A.M. 1912, A.B. Kwansei Gakwin 1908....	Osaka, Japan
<i>Public Law</i>	
YANAGISAWA, TAIJI, A.M. 1912.....	Tokio, Japan
<i>Sociology, Economics</i>	
YANG, KWEEN E., A.B. St. Johns 1909.....	Shanghai, China
<i>Economics, Sociology, Public Law</i>	
YASUI, SEKIJI, A.B. Waseda 1906.....	Kochi, Japan
<i>Administrative Law, Constitutional Law</i>	
YOUNG, ESTHER VICTORIA, A.B. N. Y. Normal 1909.....	New York City
<i>English</i>	
ZEITLIN, ROSE, A.B. N. Y. Normal 1911.....	New York City
<i>English, Comparative Literature</i>	
ZENKER, OTTILIE, A.B. N. Y. Normal 1912.....	New York City
<i>German</i>	
ZOLOTKOFF, JULIA, Equiv. A.M. Sorbonne Paris 1912.....	New York City
<i>Romance, Comparative Literature</i>	

In addition to the 1043 candidates for the degree of Master of Arts or Doctor of Philosophy 268 are registered under the Faculty of Philosophy with education as their major subject. The names of these candidates appear in the list of graduate students under Teachers College. (See page 367.)

## SUMMARY

STUDENTS PRIMARILY REGISTERED UNDER THESE FACULTIES.....	1311
STUDENTS FROM OTHER FACULTIES OF THE UNIVERSITY CANDIDATES FOR THE DEGREE OF A.M., LL.M., OR PH.D.:	
From the School of Law.....	63
From the Schools of Mines, Engineering, and Chemistry.....	3
From the School of Medicine.....	19
Grand Total.....	1399

573 students matriculated under the Faculties of Political Science, Philosophy, or Pure Science attended the Summer Session of 1912, but did not register for the first term of the academic year 1912-'13.

## FACULTY OF FINE ARTS

### SCHOOLS OF ARCHITECTURE, MUSIC, AND DESIGN

#### The Faculty

President BUTLER

Dean WOODBRIDGE

Professors ALEXANDER, COX, DOW, FARNSWORTH, FLETCHER, FRENCH, HAMLIN, HARRIMAN, HIRTH, LORD (A. W.), MASON, ROBINSON, RÜBNER, SHERMAN (F. D.), SHOTWELL (*Secretary*), SMITH (E. R.), WARREN, WHEELER, YOUNG

#### Standing Committees

ON INSTRUCTION: The Dean (*Chairman*), Professors Lord, Hamlin, Mason, Dow, Sherman, Warren, Harriman

ON SCHOLARSHIPS: The Dean (*Chairman*), Professors Sherman and Rübner

ON ADMISSION: Professors Lord (*Chairman*), Mason

Delegate to the University Council, see page 3.

#### General Statement

The Faculty of Fine Arts, established March 5, 1906, comprises the three separately organized Schools of Architecture, of Music, and of Design. Work in Architecture and in Music has long been carried on at the University, in the former subject about thirty and in the latter for about fifteen years. On the other hand, until 1906 there has been no attempt to make any systematic provision for the needs of university students who seek opportunities in the study of painting, sculpture, and decoration, and it is by the creation of a School of Design in coöperation with the National Academy of Design that the University hopes to afford such opportunities. The establishment of this new School, as yet tentative in its organization, has been made possible by an agreement between the Academy and the University on January 12, 1906. By such agreement the Art Schools of the Academy became closely associated with the University. They remain, however, entirely under the direction of the Academy, which preserves the independence secured to it by its own separate corporate existence.

Neither the University nor the Academy has at present at its disposal adequate resources to develop a complete system of instruction in the School of Design. A beginning, however, as set forth below (p. 326), has been made.

For details as to the advantages which the city of New York offers outside of the University and the Academy for the study of the fine arts and as to the public lectures, exhibitions, and recitals maintained by the University in addition to the regular academic program, the separately printed *Announcement of the Faculty of Fine Arts* should be consulted.

#### Admission

Except by special action of the Committee on Admissions, students under eighteen are not admitted and no non-matriculated under twenty-one. For regulations for admission for the certificate of proficiency see page 169, and for the regulations for the course for the Bachelor's degree in Architecture, see page 323; for that of Bachelor in Music, see page 325.

#### To Advanced Standing

Students desiring to enter the schools of the Faculty of Fine Arts with credit for courses pursued in other institutions, must make application in writing to the Chairman of the Committee on Admissions in time to reach him one week before the entrance examinations. The general regulations as to documents to be submitted and as to the acceptance of certificates are the same as for the Schools of Mines, Engineering, and Chemistry (see page 245).

#### Non-matriculated Students

The Committee on Admissions may admit students of mature age who are not candidates for a degree or certificate to such courses as they may be qualified to pursue. The qualifications necessary for admission as a non-matriculated student are:

In Architecture, in addition to three or more years of office-experience or its equivalent, a practical knowledge of architectural drawing of the five orders, and of shades and shadows, is required for the course in Architectural Design, and mathematics through plane trigonometry for the Mathematical and Architectural Engineering branches.

In Music, proficiency is determined by personal conference with some officer of the School.

In Design, students in the National Academy of Design and such other persons as have had adequate training and experience either in the history and theory or in the practice of the fine arts are admitted under this provision.

Non-matriculated students will be permitted to matriculate at any time upon fulfilling the stated entrance requirements, or they may be excused from these requirements by vote of the Faculty, if their work has shown marked excellence.

#### Fees

(See page 41)

## Fellowships and Scholarships

(See page 450)

## Examinations

Regular examinations in each course are held at the end of each half-year. All other examinations, except examinations for admission to advanced standing, are special examinations, for which the statutory fee of \$5 is charged (see page 41). For the dates of the various examinations see the academic calendar. Absence from any regular or delinquent examination for which a student is registered is regarded as a failure.

## SCHOOL OF ARCHITECTURE

## General Statement

The School of Architecture of Columbia University is a professional school for men and women designed to train its graduates for the active practice of architecture. Founded in 1881, under the direction of Professor William R. Ware, as a department of the School of Mines (now the Faculty of Applied Science), it was in 1902 made an independent School, and in 1906 placed under the Faculty of Fine Arts. It receives three classes of students: (1) Candidates for the degree of Bachelor of Architecture, who must give evidence of having completed the equivalent of two years of non-architectural study in a recognized college or scientific school (see page 322); (2) candidates for the Professional Certificate of Proficiency, who must pass entrance examinations covering 12½ units (see page 173); and (3) non-matriculated students, admitted without examination upon giving evidence of having had at least three years of professional training in architects' offices, or its equivalent (see page 41). The curriculum is identical for the first two classes and is of indeterminate duration; in general it may be covered in four years. For non-matriculated students, there is no fixed curriculum. They select their own courses of study subject to qualification in the necessary prerequisites.

## Building and Equipment

The School of Architecture now occupies its new quarters in Avery Hall. This fine building has been erected in memory of the late Samuel P. Avery, a benefactor of the University, and of his son, the late Henry O. Avery, an architect, to accommodate the Avery Architectural Library and the School of Architecture. Three entire floors of the building have been assigned to the school.

The Avery Architectural Library occupies the entire ground floor of the building. It is the richest collection of works on architecture and the allied arts in the country, and is open to the public daily from 9 A.M. to



6 P.M., and from 7 P.M. to 11 P.M. Its unsurpassed wealth of material is available at all times for purposes of study and illustration in the school.

In addition to this the school possesses in its own departmental library a collection of about 18,000 photographs and 800 books, chiefly the gift of Mr. F. A. Schermerhorn; a classified library of many thousands of prints and plates, and a large number of original drawings from various sources. The equipment of illustrative material furthermore comprises 9,000 lantern slides of architectural subjects; and a fine collection of casts of architectural details, including a large number from ancient and modern Roman buildings, the gift of the late Charles F. McKim; several valuable models of buildings and of structural details.

Lectures on scientific subjects allied to architecture are given to students of architecture in the Department of Physics. The laboratories of the Schools of Engineering offer unexcelled opportunities to advanced students in architectural engineering.

The Willard collection of architectural casts and models in the Metropolitan Museum of Art is open to students every day and two evenings in the week and is very useful for illustrating the historic styles.

### Admission

For general regulations see page 169

### The Course for the Bachelor's Degree

Candidates for admission to this course must give evidence of having successfully completed the equivalent of two years of non-architectural studies in a recognized college or scientific school. Mathematical studies pursued in anticipation of those prescribed in the School of Architecture may be included in such collegiate preparation, and students are advised to carry these studies at least through analytical geometry. The required collegiate preparation must include the equivalent of the elementary French used for admission to Columbia College.

Candidates must also show a practical knowledge of the orders of architecture, of the elements of architectural rendering, and of free-hand drawing.

### The Combined Course

Students who have completed in Columbia College the first two years of the course for the degree of B.A. or B.S., with a total of 72 points to their credit, may elect for their Junior and Senior years courses in the School of Architecture aggregating not less than 65 points, upon the completion of which they may graduate with the college degree of B.A. or B.S. Upon completing the remainder of the curriculum in the School of Architecture, which may be accomplished in two years more, they receive the degree of Bachelor of Architecture, having thus graduated in six years under both faculties and received both degrees. The advantage of this

combined course in soundness of preparation and breadth of culture is very great, and it is earnestly commended to young men in preparatory schools who look forward to the study of Architecture.

### The Course for the Certificate

(See page 169)

### Students from other Institutions

Students of any incorporated School of Art in New York City and duly accredited students from the *ateliers* of the Society of Beaux-Arts Architects of this city may be admitted, upon payment of the prescribed fees, to the courses in the elements of architecture, Shades and Shadows, Perspective, Descriptive Geometry, Theory, the History of Architecture, and the History of Ornament.

## PROGRAM OF STUDIES

### For the Degree of Bachelor of Architecture and the Professional Certificate

A student receives his degree or certificate when he has completed the 142 points scheduled. Students of fair ability and thorough preparation should be able to complete the course in four years. (For the typical four-year course see page 60.)

### Schedule of Prescribed Courses

History of Architecture, 4; History of Ornament, 6; Shades and Shadows, 4; Descriptive Geometry, 5; Perspective, 3; Stereotomy, 2; Drawing, 16; Elements of Architecture, 6; Elementary and Intermediate Design, 36; Advanced Design, 22; Theory of Architecture, 8; Civic Design, 4; Mechanics, 3; Mathematics, 9;<sup>1</sup> Building Materials, 4; Structural Design, 4; Electives, 6; total points required, 142.

### Elective Courses

Elective courses may be chosen from the following list. Six points are required, but eight points may be taken by those qualified:

Ancient Architecture, 4; Medieval Architecture, 4; Modern Architecture, 4; Research, 2 each;<sup>2</sup> Theory and Practice of Decorative Arts, 2; Summer Work, 2 each; Elasticity and Resistance of Materials, 9; Masonry Structures, 5; Graphic Statics, 4; Foundations, 4; Analytical Mechanics, 5; Heating and Ventilation, 3.

<sup>1</sup> Students who have not offered Advanced Algebra will be required to add a 2-point course in this subject (Math. 1).

<sup>2</sup> Students may register for courses in Research only in connection with the corresponding courses in Architectural History.

### Graduate Courses

Candidates for the degree of Master of Arts and Doctor of Philosophy are admitted to graduate courses in architecture upon evidence that they have received the Bachelor's degree, and possess a satisfactory proficiency in the subjects required as prerequisites to the subjects selected. See page 188.

Attention is called to the pamphlet entitled *Faculties of Political Science, Philosophy and Pure Science* which may be had on application to the Secretary of the University, and particularly to the fact that the requirements for the higher degrees are based upon subjects and not upon courses. Students, before registration, should consult the officers of instruction concerned with regard to their selection of courses.

Under the authorization of the University Council, and in each case by special arrangement with the authorities of the school, candidates for the higher degrees may pursue a part of their studies abroad. Work in Design taken as a major subject may be carried on in foreign ateliers or schools, the work being sent to Columbia University for judgment by official juries of the School of Architecture. Original research abroad as set forth by essays and drawings, and approved courses in foreign Universities, may be accepted as minor subjects in partial satisfaction of the requirements for the higher degrees.

Graduates of this school and of other schools of architecture maintaining equivalent courses are admitted to the graduate courses in Design and Construction, whether candidates for the higher degrees or not.

Holders of the Certificate in Architecture are admitted to the graduate courses offered in the school. They may not, however, be candidates for the higher degrees.

## SCHOOL OF MUSIC

### General Statement

The Department of Music was established May 4, 1896, by means of the Robert Center Fund for Instruction in Music, an endowment presented to the University by Mrs. E. Mary Ludlow in memory of her son, the late Robert Center.

In 1906 the School of Music was established including both the department above mentioned and the department which had been developed independently in Teachers College.

The aim of the instruction is to treat music historically and aesthetically, as an element of liberal culture; to teach it scientifically and technically, with a view to training musicians who shall be competent to teach and to compose; and to provide practical training in orchestral music. The several courses have reference to the needs of the undergraduate, to those of the university student wishing to specialize in music, and to those

of students who are candidates neither for a degree nor for a Certificate of Proficiency. Performances by the University Chorus and Orchestra are provided from time to time, for the members and friends of the University. There is, also, an annual concert of original compositions by students in the school. In addition, many public lectures, recitals, and concerts of various kinds are held. Courses in Music may be counted toward any of the following degrees: Bachelor of Music, under the Faculty of Fine Arts; Bachelor of Arts, and Bachelor of Science, under Columbia College or Barnard College; Master of Arts, under the Faculties of Fine Arts and Philosophy. In addition, a course leading to a Certificate of Proficiency in Music has been established.

### Equipment

A collection of music and of text-books is placed at the disposal of students in the school. It includes the complete works of Palestrina, Handel, Bach, Mozart, Beethoven, Schubert, Berlioz, Mendelssohn, Schumann, and Wagner, many orchestral and opera scores, the pianoforte classics, chamber music, and vocal music, besides theoretical works. The private library of the late Anton Seidl, consisting of 1220 scores, was presented to the University and has been placed in the rooms of the School of Music.

The school has a collection of orchestral instruments for the use of students taking part in the University Orchestra. The great organ in St. Paul's Chapel is employed both for chapel services and for public organ recitals.

(See page 135)

### Admission

For the general regulations governing all students under the Faculty of Fine Arts see page 320.

#### Candidates for the Degree of Bachelor of Music

The requirements for admission to the course leading to the degree of Bachelor of Music are: (1) The completion of courses of study in Columbia College or Barnard College, amounting to a credit of 62 points (substantially, two years' undergraduate study), or of their equivalent elsewhere; (2) the ability to play, on the pianoforte, the Two-Part Inventions of Bach or pieces of the same degree of difficulty on string or wind instruments or in the case of a singer, about the same degree of technical skill and the ability to play simple harmony exercises on the piano.



## Candidates for the Certificate of Proficiency

(See page 169)

## Candidates for the Degree of Master of Arts

The requirements for admission to the courses leading to the degree of Master of Arts, are: the degree of Bachelor of Music, or the baccalaureate degree in Arts, Science, Letters, or Philosophy, together with musical proficiency equal to that required for the degree of Bachelor of Music in Columbia University.

## PROGRAM OF STUDIES

The candidate for the degree of Bachelor of Music is expected to pursue courses of study aggregating, at least, seventy-five points,<sup>1</sup> as follows:

a. (Prescribed.) All courses in composition and criticism offered by the School of Music; a year's course in each of the following: language, literature, history, and the fine arts other than music.

b. (Elective.) Other courses offered in the University, for which the student has the necessary prerequisite, especially courses in Musical Performance, Aesthetics, Physics, or Psychology.

The candidate is further required to produce a satisfactory original composition for orchestra or with orchestral accompaniment, and to submit an essay on a musical subject.

The candidate for the Certificate of Proficiency in Music is expected to fulfil the same requirements as in the course leading to the degree of Bachelor of Music (see above), except that only fifty points<sup>1</sup> of credit are demanded for the certificate. The same requirement is made with regard to the original composition and the essay, as in the case of a candidate for the degree of Bachelor of Music.

The candidate for the degree of Master of Arts, with Music as the subject of major interest, is expected to pursue advanced studies in some other subject, in addition to Music. A minimum residence of one year is required. Each candidate will take the course of instruction known as Music 101-102, or other courses in connection with it. Particular stress, however, will be laid on advanced composition in Music, or on research in the field of Music, or on both. A candidate who offers Music as his principal subject of study will be required, also, to submit an original composition of large form for orchestra or with orchestral accompaniment, or a dissertation on a musical subject, embodying the results of research, or both.

## SCHOOL OF DESIGN

The University offers opportunities for the practical and the historical study of painting, sculpture, and decoration. The practical work may be taken in connection with courses offered by Teachers College. Certain

<sup>1</sup> A point signifies the credit granted for each hour per week of attendance upon any course of study for one half-year.



courses in the School of Architecture are also available. The studios of the National Academy of Design are in close proximity to the University. The historical study of art, which is not yet fully organized, may be had in connection with reading courses in the Avery Library and with certain courses offered by different departments under the Faculty of Philosophy. No degree is at present awarded by the University in the School of Design, but students may receive a certificate upon the completion of a satisfactory course of study. This course should normally occupy the student for about three years and will be adjusted to his individual needs.

### Admission

For the general regulations as to admission, see page 320.

### Program of Studies for the Certificate of Proficiency

This course is intended to give the student, first, a broad outlook upon the whole field of the fine arts, by an outline study of the theory, criticism, and history of the arts in general; secondly, a more detailed acquaintance with the history and principles of the particular branch of the fine arts in which the student elects to specialize; and, thirdly, a sufficient amount and variety of technical training to qualify him to pursue with success the particular branch of art which he has elected, besides giving him some experience and understanding of the technical processes and methods of expression of other forms of art. It should be possible to complete the work for the certificate in about three years. One hundred and fifteen points are required for the certificate. Of these, 47 are assigned to prescribed courses, from 10 to 25 to elective courses, and the balance to work in the studio. Courses whose numbers are prefixed with the initials N. A. are given by the National Academy of Design; T. C. indicates that the course is given in Teachers College. Detailed information as to these courses will be found in the separately printed *Announcement of the Faculty of Fine Arts*.

## REGISTER OF STUDENTS

### School of Architecture

#### CANDIDATES FOR DEGREE

ALLEN, GEORGE MARCUS, B.S. Min. Eng. Univ. of Utah 1908.	Salt Lake City, Utah
BITTERMAN, ALBERT C. (Senior Columbia College)	Yonkers, N. Y.
BLACKWELL, WALTER R. L.	Peterborough, Canada
BOYD, BYRON BENNETT, A.B. Univ. of Colorado 1910.	Denver, Colo.
BRAINERD, HARRY BEARDSLEE, A.B. 1909.	New York City
BRAMWELL, WILLIAM MOFFAT, Ph.B. Yale 1912.	New York City
BUCHTENKERCH, GEORGE CHARLES (Senior Columbia College)	New York City
COFFIN, LEWIS AUGUSTUS, JR., A.B. 1912.	New York City
DIXON, PAUL WILLIAM.	Sac City, Iowa
FINLAYSON, DANIEL AYLESBURY, B.S. Georgia Tech. 1912.	Quitman, Ga.
FINLAYSON, FRANK LATHROP, B.S. 1912.	New York City
GENTRY, ALONZO HENLEY, JR.	Independence, Mo.
GIBSON, THOMAS FENNER, B.E. in C.E. S. C. A. and M. College 1912.	Red Springs, N. C.
GREENE, GILES POLLARD, A.B. Yale 1911.	Honesdale, Pa.
GRIFFITH, EDWARD ST. JOHN.	Harper's Ferry, W. Va.
HAMLIN, TALBOT FAULKNER, A.B. Amherst 1910.	New York City
HARDISON, ROBERT MCKENZIE, B.E. in C.E. N. C. A. and M. 1912.	Morven, N. C.
HENRY, LEONARD STARR (Junior Columbia College)	New York City
HILDEBRAND, ARTHUR STURGESS, A.B. Yale 1910.	Hartford, Conn.
HODENPYL, GEORGE HENRY.	Summit, N. J.
HOLDEN, ARTHUR CORT, Litt.B. Princeton 1912.	New York City
HOPKINS, HENRY POWELL.	Annapolis, Md.
KOECHL, OTTO RUDOLPH, LL.B. 1907, A.B. Harvard 1904.	New York City
LÉON, TOMAS CARLOS.	New York City
MAUSOLFF, ALFRED KERMAN.	New York City
MCDONNELL, JOE HUNTER.	Little Rock, Ark.
NOMLAND, KEMPER.	Grand Fork, N. Dak.
NORTON, KENNETH BERKLEY, B.S. 1912.	New York City
PAGE, WILLIAM ENOCH.	Haverhill, N. H.
POND, DE WITT C., B.S. Trinity 1908.	Hartford, Conn.
ROTH, SOLO.	New York City
SALOMONSKY, EDGAR ALLEN, B.S. Washington and Lee Univ. 1911.	Norfolk, Va.
SCHULZ, PAUL, B.S. C. C. N. Y. 1909.	New York City
SHUTZE, PHILIP TRAMMELL, B.S. Ga. Sch. of Technology 1912.	Atlanta, Ga.
SIMMONS, WILLIAMSON.	Norfolk, Va.
SINCLAIR, RALPH HANDS (Senior Columbia College)	New York City
SMITH, FLOYD ROBINSON, JR., A.B. Yale 1912.	New York City
THIESEN, JOHN HENRY.	Pensacola, Fla.
TWITCHELL, RALPH S., A.B. Rollins 1910.	Mansfield, Ohio
WALSH, HAROLD VANDERVOORT.	Yonkers, N. Y.
WARD, WALTER L., Litt.B. Princeton 1910.	Newark, N. J.
WEEKS, WILLIAM CORNELL.	Huntington, N. Y.

WILCOX, ROLLIN CRAWFORD, A.B. Princeton 1912.....	Bloomington, Ill.
WILSON, JAMES PERRY (Senior Columbia College).....	Newark, N. J.
ZETSCHKE, ROBERT GUNTHER.....	New York City
ZOLLER, HAROLD PINDAR, B.S. 1912.....	New York City

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## CANDIDATES FOR CERTIFICATE

ADLER, M. BERNARD.....	New York City
AGNE, HARRY GEORGE.....	New York City
AGNEW, WILLIAM CHALMERS.....	Duluth, Minn.
BARTOS, ELMER E.....	New York City
BATES, JOHN EVARTS.....	Binghamton, N. Y.
BERLENBACH, CHARLES FRANCIS.....	New York City
BOWDEN, REUBEN HENRY.....	Willimantic, Conn.
BROWN, BACHE HAMILTON.....	New York City
CLOUGH, ARTHUR NORMAN.....	New York City
DAVIS, WILLIAM HENRY.....	New York City
EGAN, JOHN TAYLOR.....	New York City
ELSNER, GEORGE WALDRON, JR.....	New York City
FANNING, EDWARD FRANCIS.....	New York City
FREEHOF, MORTIMER EDGAR.....	New York City
FREUDENFELS, EMIL.....	New York City
GAMBA, MANUEL.....	Havana, Cuba
GIROUX, LEON MAXWELL.....	New York City
GRAEB, GERTRUDE.....	New York City
GREENBERG, JULIUS R.....	New York City
HAIRE, THOMAS C.....	Helena, Mont.
HALL, GEORGE BERRIAN.....	New York City
HARTLEY, ESDRAS.....	New York City
HESSE, WALTER.....	New York City
HIRSHFELD, LEONARD.....	New York City
HOLT, EVAN LE ROY MURRAY.....	Yonkers, N. Y.
HOWITT, LOUIS ROMER.....	White Plains, N. Y.
HUESMANN, LOUIS B.....	Hoboken, N. J.
IDE, JOHN JAY.....	New York City
JOSEPH, LEONARD.....	New York City
KNAPPE, ADOLPH HERMAN.....	Milwaukee, Wis.
LACY, PHILIP SAWYER.....	New York City
LA PIERRE, LESTER STORMS.....	New York City
LASHKOWITZ, BENJAMIN DAVID.....	Newark, N. J.
LATENSER, FRANK.....	Omaha, Neb.
LESHER, ARTHUR LAWRENCE, JR.....	Rye, N. Y.
LESLIE, ROBERT LOCKHART.....	New York City
LINDSLEY, GIRARD.....	Orange, N. J.
LUCK, COURTLANDT.....	New York City
MCDONALD, ALLEN JAMES.....	New York City
MRAD, MARCIA J.....	Youngsville, Pa.
MILLER, GEORGE ELBERT.....	New York City
MONTANARO, FRANK.....	New York City
MORRIS, RAYMOND MONTROSE.....	New York City
PARK, EDWIN AVERY.....	New Haven, Conn.
PETERSON, STUART.....	New York City
PAUFVE, REYNOLD EMMANUEL.....	New York City
PELLEGRINI, UGO.....	Rome, Italy

PODOLOFF, DANIEL.....	New Haven, Conn.
PONSFORD, HENRY JORDAN.....	El Paso, Texas
RISLEY, WINCHTON L.....	San Diego, Cal.
ROBIN, EDWIN JEROME.....	New York City
RUDD, JOHN S.....	Tyringham, Mass.
RUFFIER, GASTON.....	New York City
SABA, KINTARO.....	Gunma, Japan
SCHENE, LOUIS HENRY HERMAN.....	New York City
SCHLEIFF, JOSEPH WILLIAM.....	New York City
VON SCHWANENFLUEGEL, HUGO.....	New York City
SEELIG, IRVING.....	New York City
SHENFIELD, LAWRENCE L.....	New York City
SMALL, WALTER S.....	Butte, Montana
SMITH, STEPHEN ERNEST.....	White Plains, N. Y.
SPURGEON, ROBERT HENRY.....	New York City
STEAD, MANNING FORCE.....	Washington, D. C.
TRACEY, JOHN.....	Albany, N. Y.
VAN NAME, CARL SNYDER.....	New York City
VASSAR, HAROLD WORTH.....	Ballston Spa, N. Y.
WETSTEIN, JACOB.....	New York City

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## NON-MATRICULATED STUDENTS

BERGEN, HAROLD PERRINE.....	Portland, Ore.
BOWERS, ROSCOE E.....	Los Angeles, Cal.
BRACKETT, ROBERT GARRY.....	Rochester, N. Y.
CORDNER, GEORGE FRANCIS.....	Jersey City, N. J.
DE ROSA, EUGENE.....	New York City
DORNIN, ANNE HOWISON.....	Norfolk, Va.
GANDER, CONRAD J.....	Albany, N. Y.
HAEFELE, HERBERT WALTER.....	Cleveland, O.
HOFFMAN, MURRAY, A.B. Harvard 1912.....	New York City
JAEGER, LOUIS CARL.....	Newark, N. J.
KODAK, STEPHEN J.....	Yonkers, N. Y.
LINDNER, ALBERT FREDERICK.....	Hartford, Conn.
MASSARENE, WILLIAM GARDNER.....	New York City
RAY, ARTHUR GORDON.....	Westmount, Que., Can.
REED, WALTER JAY.....	Scarsdale, N. Y.
SCHENCK, ANNA PENDLETON.....	New York City
SMITH, TURANIA DALLAS.....	New York City
SOPER, FREDERICK JOHN.....	Los Angeles, Cal.
SWENSEN, KARL.....	Chicago, Ill.
THAYER, EDGAR RANDOLPH.....	Yonkers, N. Y.

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## School of Music

## CANDIDATES FOR HIGHER DEGREES

KILENYI, EDWARD, Equiv. A.B. Gymnasium Hungary 1904.....	New York City
TALLMAN, GLADYS GRIFFITH, A.B. 1911.....	New York City

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## NON-MATRICULATED STUDENTS

BALSAM, JAMES, A.M. 1912, A.B. C. C. N. Y. 1909.....	New York City
BENDER, OSCAR.....	New York City
BINDER, ABRAHAM WOLF.....	New York City

GRAEF, ADA DOROTHY.....	Hastings-on-Hudson, N. Y.
HAYS, HELEN H.....	New York City
HOFHEIMER, GRACE MARY.....	New York City
KAMMINS, HERMAN DAVID.....	New York City
KATZ, ISRAEL.....	New York City
DE MONTELLIER, MRS. JESSIE.....	New York City
MOSS, ELIZABETH JACKSON, LL.B. N. Y. Univ. 1905.....	New York City
RAISCH, WILLIAM LEROY.....	Bradley Beach, N. J.
RITTER, LAWRENCE JOHN.....	New York City
ROBERTS, GEORGE H., A.B. Dartmouth 1891.....	Boston, Mass.
SILVER, MEYER.....	New York City
THROOP, BEATRICE C., Mus. B. Syracuse 1904.....	Port Gibson, N. Y.
TOOKER, MILDRED DURANT.....	Larchmont, N. Y.
TOWNER, ETHEL MAY.....	New York City

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## SUMMARY—FINE ARTS

## Architecture

Candidates for degree.....	46
Candidates for certificate.....	67
Non-matriculated students.....	20
<hr/>	
Total Architecture .....	133
Deduct Columbia College students.....	5
<hr/>	
Net total Architecture .....	128

## Music

Music.....	19
<hr/>	
Grand total Fine Arts.....	147



## SCHOOL OF JOURNALISM

### Advisory Board

SAMUEL BOWLES.....	<i>Springfield Republican</i>
NICHOLAS MURRAY BUTLER.....	<i>Columbia University</i>
JOHN LANGDON HEATON.....	<i>New York World</i>
GEORGE S. JOHNS.....	<i>St. Louis Post-Dispatch</i>
VICTOR FREMONT LAWSON.....	<i>Chicago Daily News</i>
ST. CLAIR MCKELWAY.....	<i>Brooklyn Eagle</i>
CHARLES RANSOM MILLER.....	<i>New York Times</i>
EDWARD PAGE MITCHELL.....	<i>The Sun, New York</i>
RALPH PULITZER.....	<i>The World, New York</i>
WHITELAW REID (Chairman).....	451 Madison Ave., New York
MELVILLE ELIJAH STONE.....	<i>Associated Press, New York</i>
CHARLES H. TAYLOR.....	<i>Boston Globe</i>
SAMUEL CALVIN WELLS.....	<i>Philadelphia Press</i>

### Administrative Board

(See page 8)

### Aims of the School

The aim of the School of Journalism is to assist and attract to the journalistic profession young men of character and ability, and to help those already engaged in the profession to acquire the highest moral and intellectual training. It will be the object of the School to make better journalists, who will make better newspapers, which will better serve the public.

### Building and Equipment

A building for the use of the School of Journalism is in process of erection on the southeast corner of Broadway and 116th Street, and should be ready for occupation at the opening of the academic year in September, 1913.

### Requirements for Admission

Candidates for admission to the first year must be at least 17 years of age at entrance, and correspondingly older for advanced standing. A certificate of good moral character must be presented, and, in the case of students from other colleges, of honorable dismissal.

For detailed statement of the requirements, both prescribed and elective, and a description of the ground covered by the examinations, see p. 169.

### Advanced Standing

Candidates for admission to advanced standing, upon the basis of certificates of transfer from other colleges, should fill out the appropriate application blank, to be obtained from the Secretary of the University, and file it with the Committee on Undergraduate Admissions before September 1st.

### Non-Matriculated Students

Non-matriculated students may be admitted to the School at the discretion of the Director, if they submit evidence of maturity, experience, or marked fitness, and may take either full or partial work. If they take the work prescribed for the degree of Bachelor of Literature for two years and maintain an average grade of B, they may be admitted to advanced standing in candidacy for the degree. Such students are expected to conform to the same standards of attendance and scholarship as are required of matriculated students. Applications should be made before September 1st to the Chairman of the Committee on Undergraduate Admissions on blanks to be obtained from the Secretary of the University.

### Foreign Language Test

The ability of students to read a French or German newspaper will be tested on their entrance to professional studies at the beginning of the second year. All students, whether admitted on advanced standing or not, must satisfy this requirement before admission to the B.Lit. degree. In special cases, Spanish or Italian may be substituted with the consent of the Director.

### Registration

(See page 41)

### Fees

(See page 41)

### Scholarships and Prizes

(See page 450)

### Program of Study for the Degree of Bachelor of Literature

The Program of Study for the degree of Bachelor of Literature consists of 136 points, each point signifying the satisfactory completion of work requiring attendance one hour a week for one half-year. Lettered courses extend throughout both half-years. In numbered courses, odd numbers designate the first, even numbers the second half-year. A course designated thus: 1-2, 21-22, runs through two half-years, beginning in September.

Candidates for the degree who wish to specialize in some branch of journalism or to continue particular subjects will be allowed, after the first year, to substitute courses of equivalent credit for any of those given below on submission to the Director of an approved program. In preparing such a program they will have the assistance and advice of the members of the staff of the School.

Subject to the foregoing regulations, the satisfactory completion of the following courses, together with the language test above mentioned, is required for the B.Lit. degree:

#### FIRST YEAR

English <b>JA</b> (Freshman Composition).....	6 points
French <b>J</b> or German <b>J</b> (Newspaper Reading Course).....	6 "
Journalism <b>1-2</b> , History and Principles of Natural Science..	6 "
History <b>JA</b> (General Survey).....	6 "
Politics <b>j1-2</b> (Introductory Course).....	6 "
Philosophy <b>J</b> (Introductory Course), or a Language, or a Science.....	6 "

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36 points  
(18 hours a week)

(In addition to the above, the work in physical education prescribed for College freshmen is required.)

#### SECOND YEAR

Journalism <b>A</b> (a practice course in writing).....	6 points
Economics <b>1-2</b> (Introductory Course).....	6 "
Journalism <b>21-2</b> (Survey of English Literature).....	6 "
‡English <b>19-20</b> (Survey of American Literature).....	4 "
History <b>J</b> (Laboratory Course in Modern European History)	8 "
History <b>13-14</b> (Survey of American History).....	6 "

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36 points  
(18 hours a week)

#### THIRD YEAR

Journalism <b>B</b> (continuation of Journalism <b>A</b> ).....	6 points
Journalism <b>31-2</b> , Newspaper Technic (newsgathering and preparation of copy).....	6 "
*Journalism <b>131-2</b> , Modern European Literature.....	6 "
Journalism <b>33</b> , Statistics.....	3 "
*History <b>56</b> (The Industrial Revolution).....	3 "
*Politics <b>55-6</b> (Party Government in the United States)....	6 "
Special Lectures.....	2 "

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32 points  
(16 hours a week)

\* May be taken for graduate credit.

‡ Or a continuation course in language.

## FOURTH YEAR

Journalism 41-2, Newspaper Technic (special reporting and interviewing).....	6 points
Journalism 43-4, Newspaper Technic (editing and re-writing) .....	8   “
*Journalism 141-2, History of Journalism.....	6   “
*Journalism 143-4, Elements of Law (with special reference to the Law of Libel).....	6   “
*Economics 55-56 (Labor and Trust Problems).....	6   “

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32 points  
(16 hours a week)

## A.B. or B.S. Combined with B.Lit.

(See page 194)

## Stenography and Typewriting

Courses in stenography and typewriting are provided in Extension Teaching and students are advised to acquire both as soon as they can. All professional exercises must be submitted in typewritten form after the first year. A room and appliances will be provided in the new building. Students are urged to familiarize themselves with typewriting at as early a stage as is possible in their preparatory work.

## Admission of Women

The first two years of the curriculum are offered for duly qualified women students at Barnard College; the professional courses of the third and fourth years will be given in the School building and will be open to women on the same conditions as to men.

## REGISTER OF STUDENTS

### SCHOOL OF JOURNALISM

#### FOURTH YEAR—CLASS OF 1913

ACKERMAN, CARL WILLIAM, A.B. Earlham College 1911.....	Richmond, Ind.
BRASHEARS, JOHN ARTHUR, A.B. St. John's College (Md.) 1912.....	Hollis, N. Y.
COLE, JOHN NELSON, JR., A.B. Trinity College (N. C.) 1909.....	Raleigh, N. C.
CONKLIN, WILLIAM DUNN, A.B. Rochester 1912.....	Dansville, N. Y.
FRASER, LEON, A.B. 1910, A.M. 1912.....	New York City
FRISSELL, SYDNEY DODD, A.B. Yale 1908.....	Hampton, Va.
HUMISTON, MRS. MARY GRACE, LL.B. New York Univ. 1902.....	New York City
MARDFIN, VICTOR H., B.S., C. C. N. Y. 1908.....	New York City
MASON, EDWARD FILES, A.B. Whitman College 1908.....	Mountain Home, Idaho
PENNISTON, JOHN BENJAMIN, B.S. Missouri 1912, A.B. Park College 1911..	N. Y. C.
ROSENFELD, PAUL LEOPOLD, A.B. Yale 1912.....	New York City
SLOAN, LAURENCE HENRY, A.B. DePauw 1912.....	Spencer, Ind.
SMITH, GEDDES, A.B. 1910, A.M. 1912.....	New York City
TONG, HOLLINGTON KONG, A.B. Missouri 1912.....	Shanghai, China

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#### THIRD YEAR—CLASS OF 1914

BATCHELOR, OREN BRONSON.....	Goshen, Ind.
BLOUNT, IDA MAY.....	Atlanta, Ga.
CRAUS, MOXIE A., A.B. Baylor Univ. 1912.....	McKinney, Texas
EDWARDS, CLARENCE B.....	Providence, R. I.
GREENBERG, JACOB.....	New York City
KOON, JOHN IRBY, A.B. Newberry College 1908.....	Prosperity, S. C.
LAHEY, WILLIAM STEWART (Senior Columbia College) .....	Jersey City, N. J.
LIEBOWITZ, DAVID.....	New York City
MARKEL, LESTER.....	New York City
MORITZ, CLAUDIA.....	Montgomery, Ala.
VAN DE WATER, FREDERIC FRANKLYN, JR.....	New York City
WATERBURY, CHARLES HAROLD (Senior Columbia College) .....	Mamaroneck, N. Y.
WHITMORE, RAYMOND E., A.B. Franklin and Marshall 1912.....	Millersville, Pa.

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#### SECOND YEAR—CLASS OF 1915

BAER, STERLING.....	New York City
CORNELL, JOHN FRANCIS.....	New York City
DANZIG, SAMUEL V. H. (Junior Columbia College).....	Albany, N. Y.
EVERETT, JOHN ROBERTS.....	Smith Center, Kan.
GESEY, ADAM T.....	York, Pa.
GOODMAN, HENRY ISIDORE.....	New York City
GRIFFEN, RICHARD FIELD (Junior Columbia College).....	New York City
LEVY, DAVID SAUL.....	Pittsburgh, Pa.
OSTERKAMP, FRITZ <sup>1</sup> EMIL.....	New York City
SCHANG, FREDERICK CHRISTIAN, JR.....	New York City
SPENCER, WILLIAM CALL.....	Corona, Calif.
VOORHIES, JAY (Junior Columbia College).....	New York City
WEED, LOWREY ALBERT (Sophomore Columbia College).....	Hillsdale, N. J.

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## FIRST YEAR—CLASS OF 1916

The following students are taking the first year of the course in Journalism, but are subject to the educational control of the Faculty of Columbia College.

ACKER, JAMES GORDON.....	New York City
ADLER, STANLEY LEON.....	New York City
BARTLETT, KENNETH HAYDEN.....	Yonkers, N. Y.
CLARK, TRACY.....	Hughesville, Pa.
DIAMOND, EMANUEL.....	New York City
GEFFEN, MAXWELL.....	New York City
GODING, ARTHUR TUTTLE.....	West Acton, Mass.
JANNEY, SAMUEL M., JR.....	New York City
KITCHEN, VICTOR CONSTANT.....	East Orange, N. J.
MORGAN, CHARLES LEMON.....	Indianapolis, Ind.
NICHOLSON, ALEXANDER A.....	Jersey City, N. J.
SANDERS, GILBERT.....	New York City
SWEET, FRANK HAMMOND, JR.....	Grand Rapids, Mich.
TOLISCHUS, OTTO DAVID.....	New York City
WALSH, HARRY J.....	New York City
WARD, MORRIS RAWORTH.....	Denver, Colo.
WENDOVER, SANDFORD HUTTON.....	Warwick, N. Y.

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## NON-MATRICULATED STUDENTS

ARMSTRONG, RALPH.....	Kokomo, Ind.
BALDERSTON, JOHN LLOYD.....	New York City
HASLETT, ROBERT RYLAND.....	Elmhurst, N. Y.
HOYEM, OLIVER.....	Calumet, Mich.
KREAMER, ALBERT HENRY.....	Paterson, N. J.
LEARY, WARREN DENIS.....	New York City
LEWIS, EDWIN NEWELL.....	New Britain, Conn.
McMAHON, JOHN FRANCIS.....	Buffalo, N. Y.
MEENAN, WILLIAM THOMAS.....	Amsterdam, N. Y.
MELLAMED, HARRY CHARLES.....	Hartford, Conn.
MUNROE, ALBERT FOSTER.....	Fall River, Mass.
PERKINS, EDWARD BRACEY.....	Omaha, Neb.
PLATT, JONAS HENRY, JR.....	New York City
PORTER, RUSSELL BRYAN.....	Bridgeport, Conn.
REGAN, FRANK A.....	New York City
RILEY, JOSEPH BLOUNT, JR., B.S. Mercer Univ. 1905.....	Macon, Ga.
WEBSTER, JAMES CUMMING.....	New Haven, Conn.
WEITZENKORN, LOUIS MOSES.....	Wilkes-Barre, Pa.
WILLIAMS, COLLEY EUGENE.....	Arlington, Ga.

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## SUMMARY

Fourth Year—Class of 1913.....	14
Third Year—Class of 1914.....	13
Second Year—Class of 1915.....	13
First Year—Class of 1916.....	17
Non-matriculated students.....	19
Total.....	76
Deduct Columbia College students.....	6
Net total.....	70

## BARNARD COLLEGE

### Trustees

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Mrs. A. A. ANDERSON, *Vice-Chairman*

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### Standing Committees

1912

EXECUTIVE COMMITTEE: Dr. BROWNELL (*Chairman*), Mrs. ANDERSON (*Vice-Chairman*), Mr. JENNINGS (*Clerk*), Mr. MILBANK, Mrs. PARSONS, Mr. MILBURN, Miss SPENCE, Miss BAKER, Mr. RIVES, the PRESIDENT, and the TREASURER (*ex-officio*).

ON FINANCE: Mr. MILBANK (*Chairman*), Mr. JAY, Mr. TOWNSEND, and the Chairman of the BOARD OF TRUSTEES (*ex-officio*).

ON BUILDINGS AND GROUNDS: Miss BAKER (*Chairman*), Mrs. MUNN, Mrs. RUMSEY, the PRESIDENT and the Chairman of the BOARD OF TRUSTEES (*ex-officio*).

ON EDUCATION: Mr. MILBURN (*Chairman*), Miss SPENCE, Mrs. SPERANZA, the PRESIDENT and the Chairman of the BOARD OF TRUSTEES (*ex-officio*).

## OFFICERS OF INSTRUCTION

## The Faculty

President BUTLER

Dean GILDERSLEEVE

Provost BREWSTER

Professors BALDWIN, <sup>1</sup>BOTSFORD, BRAUN, CHADDOCK, COLE, CRAMPTON, FARRAND, GERIG, GIDDINGS, HAZEN, HIRST, HUBBARD, JACOBY, JONES, KASNER, KNAPP, LOISEAUX, LORD, MCCREA, MALTBY, <sup>2</sup>MONTAGUE, MOORE (H. L.), MUSSEY, MUZZEY, OGILVIE, OSBURN, PERRY, REIMER, RICHARDS, ROBINSON, <sup>3</sup>SELIGMAN, SHOTWELL, THOMAS, TRENT, VAN HOOK, WEEKS (R.), WHEELER, Miss M. F. WEEKS

## Standing Committees of the Faculty

BARNARD MEMBERS OF THE UNIVERSITY COMMITTEE ON UNDERGRADUATE ADMISSIONS: Professors JONES, *Chairman*, COLE, BREWSTER, and VAN HOOK

COMMITTEE ON INSTRUCTION: The PROVOST, *Chairman*, Professors KNAPP, MONTAGUE, REIMER, CRAMPTON, MUSSEY and RAYMOND WEEKS, and the DEAN (*ex-officio*)

COMMITTEE ON SCHOLARSHIPS: The DEAN, *Chairman*, Professors HUBBARD and HIRST, and the PROVOST (*ex-officio*)

COMMITTEE ON HONORS: Professors MALTBY, *Chairman*, and HAZEN, Miss HUTTMANN and the DEAN and the PROVOST (*ex-officio*)

COMMITTEE ON STUDENT ORGANIZATIONS: The DEAN, *Chairman*, Miss WEEKS, Professors BRAUN and BALDWIN, Dr. HASKELL, and the PROVOST (*ex-officio*)

Delegates to the University Council, see page 3.

For other officers who may give instruction to students of Barnard College, consult the several departmental statements.

## Officers of Administration

(See page 3)

## GENERAL STATEMENT

In 1883 the Trustees of Columbia College offered degrees to women who should be able to pass the necessary examinations, without, however, providing instruction for them. The resulting system, called The Collegiate Course for Women, proved unsatisfactory to both parties. Therefore, Barnard College was organized in 1889 to provide instruction for women which should be identical with or equivalent to that provided by Columbia for men.

<sup>1</sup> Absent on leave second half-year. <sup>2</sup> Absent on leave first half-year. <sup>3</sup> Absent on leave 1912-13.

For eleven years it duplicated for women as far as possible the curriculum of Columbia College, and also registered for graduate work under the University Faculties women who held the bachelor's degree from institutions of good standing. Its instructors were members of the University staff. Examinations for entrance, those given in course, and those for degrees, were conducted by Columbia University. During the first three undergraduate years separate instruction was given to women; in the senior year they were admitted to certain courses in the University. Graduate students attended many courses at the University under the Faculties of Philosophy, Political Science, and Pure Science, the laboratory work in science being done at Barnard College.

However, Barnard's numerical growth made inappropriate the informal arrangement for instruction which was the natural method at the outset, and it became necessary to recognize formally the status which had gradually come into existence. Accordingly, an agreement was entered into in January, 1900, by which Barnard was included in the University system. Barnard is now an independent college for women with a corporation and a faculty of its own vested with all the powers commonly belonging to such bodies. At the same time, it shares the library, the instruction, and the degrees of Columbia University.

A more exact idea of the relations between Barnard College and Columbia University and also of the relations between Barnard College and Teachers College is to be found in the current edition of the *Announcement of Barnard College*. This may be obtained without charge upon application to the Secretary of Barnard College.

### ADMISSION

(See page 169)

In addition, the following requirement has been adopted by Barnard College:

In September, 1915, and thereafter all candidates for admission to the A.B. and B.S. courses at Barnard College, except those who offer Elementary Greek, will be required to offer at least three (3) units in modern foreign languages. To meet this requirement a student may offer Elementary and Intermediate French, or Elementary and Intermediate German, or the elementary examinations in any two of the following modern languages: French, German, Italian, Spanish. For the change in the modern language requirement in college work see page 172.

### Admission on Probation

A candidate for admission who has not secured the prescribed  $14\frac{1}{2}$  units may be admitted to the freshman class with conditions, if in the judgment of the Committee on Admissions she is qualified to undertake the work of

the class. General deficiency in any prescribed subject will disqualify for admission. Except for reasons of weight, a student who has failed to complete a course in a good high school or preparatory school will not be admitted with conditions.

A student admitted conditionally or by credentials from another college or from the State Education Department will be held under probation during the first half-year of residence. For a detailed statement regarding the conditions of probation, see the *Announcement of Barnard College*, which can be obtained without charge from the Secretary of Barnard College.

### To Advanced Standing

See the "Requirements for Admission to Advanced Standing in Columbia College," page 190.

In addition, the credits granted in any subject to a student admitted with advanced standing may be withdrawn or diminished in amount, if, in pursuing such subject after admission to Barnard College, the student proves that the granting of the credits was wholly or in part unwarranted by her previous work.

No student may receive a degree who has resided less than two full half-years at Barnard College.

No applicant will be allowed to enter the senior class as a candidate for a degree after October 15 in any year.

### As Special Students

Candidates for admission as special students must make application in writing at least one week before the first day of the entrance examinations in September or in January. Proper blanks for this purpose may be obtained from the Secretary.

Special students in Barnard College are of two classes: matriculated and non-matriculated.

Matriculated special students are women who wish, without taking a degree, to make a serious study of some subject or group of subjects. They must pass the regular examinations for admission to the freshman class and have full credit for fourteen and one half ( $14\frac{1}{2}$ ) units of the entrance requirements. (See page 169.) They may, therefore, in event of a change of plan be credited with such of their courses as may coincide with the courses leading to a degree.

Non-matriculated special students must be women of mature age who wish to pursue chiefly advanced courses of special study. They may be admitted at the discretion of the Committee on Admissions without passing formal entrance examinations; but must furnish proof that they have at some time pursued the studies included in the matriculation examinations and must satisfy the requirements of the department that they



desire to enter. Candidates desiring to pursue merely elementary courses, as in languages, etc., will not be admitted as non-matriculated special students.

No courses taken by non-matriculated special students can at any time be counted by them toward a degree.

Information regarding the regulations governing the election of studies, amount of work, attendance, examinations, etc., of special students is contained in the *Announcement of Barnard College*, which can be obtained without charge from the Secretary of Barnard College.

### Matriculation, Registration, Fees

Detailed information regarding matriculation, registration, and fees will be found in the current *Announcement of Barnard College*, which can be obtained without charge on application to the Secretary of Barnard College.

### Dormitory

(See page 53)

### Program of Studies

Upon completion of a curriculum arranged on one of the plans to be described below, the student is recommended by the Faculty of Barnard College for the degree of Bachelor of Arts or Bachelor of Science.

#### Program of Studies for the Degree of Bachelor of Arts

Unless the equivalents are offered for admission, the following courses are prescribed:

English A and B.....	12 points
French A and German A (see new requirements below)	12 "
History A.....	6 "
Latin A.....	6 "
Mathematics A.....	6 "
Philosophy A.....	6 "
Physical Education A and B.....	4 "
Economics A.....	6 "
Chemistry 5-6 or Physics 1-2 or 11-12.....	6 "
Botany, Chemistry, Geology, Physics, Psychology (Experimental), or Zoölogy: two half-year courses in addition to Physics 1-2 or 11-12 or Chemistry 5-6 or any course in science that may have been offered for admission.....	6 "
Major subject.....	18 "
Free electives to complete the total of.....	124 "

## New Requirements in Modern Languages

Students who enter Barnard College in 1912, 1913 or 1914 and who have offered at entrance at least three (3) units in modern languages (see p. 172), have the option of satisfying, in place of the old requirements above stated, the following new requirements:

No modern language course in college will be prescribed. Before being registered as seniors, all students, except those who have offered Greek at entrance or who have taken Greek 1-2 in college, must satisfy the departments of Romance Languages and Germanic Languages that they have a working knowledge of French and German. In special cases, with the consent of the Committee on Instruction, Spanish or Italian may be substituted for French.

As a rule, the departmental test will take the form of an oral examination in translation at sight. It may be taken at any time during the college course and must be taken before May 1 of the junior year.

A student who offers Greek at entrance or who takes Greek 1-2 in college will be obliged to stand the test in only one of the modern languages.

In 1915 and thereafter the foregoing requirements will be prescribed for all students in the A.B. and B.S. courses.

## Program of Studies for the Degree of Bachelor of Science

Unless the equivalents are offered for admission, the following courses are prescribed:

English A and B.....	12	points
French A and German A (see new requirements under I, preceding page).....	12	"
History A.....	6	"
Mathematics A.....	6	"
Philosophy A.....	6	"
Physical Education A and B.....	4	"
Grouped work in science amounting to at least.....	70	"

which must include:

A major subject of at least 28 points in one of the following natural sciences: Astronomy, Botany, Chemistry, Geography, Geology, Mineralogy, Physics, Experimental Psychology, and Zoölogy, or in Mathematics; and

Two minors of at least 12 points each, one in a subject allied to the major and one in a diverse subject, both to be chosen from the foregoing list with the addition of Anthropology, which should, as a rule, be taken only in connection with Botany or Zoölogy as a major.

Free electives to complete the total of..... 124 "

### General Two Years' Course, Not Leading to a Barnard Degree

This general course is designed to furnish the collegiate foundation for professional work in other schools of the University. It comprises from 62 to 72 points of work. The courses prescribed depend upon whether the candidate intends to transfer to the School of Education, the School of Practical Arts, the School of Architecture, the School of Music, or the School of Journalism. Full particulars will be found in the announcements of Barnard College and the professional schools concerned.

### Courses in the Graduate Faculties and Professional Schools Open to Barnard Students

Certain courses in the Schools of Architecture and Music and in Teachers College are open to regular students registered in Barnard College. Certain graduate courses in Columbia University under the Faculties of Political Science, Philosophy, and Pure Science, and other courses in the Union Theological Seminary and the New York School of Philanthropy are open to specially qualified Barnard seniors.

After two years of collegiate work in Barnard a student may transfer without examination to the Faculty of Fine Arts as a candidate for the degree of Bachelor of Architecture or Bachelor of Music, or to Teachers College as a candidate for the degree of Bachelor of Science in Education or Bachelor of Science in Practical Arts. It is also possible for a student to plan her work in such a way as to earn a professional diploma from Teachers College at the same time as her academic degree from Barnard College by transferring to Teachers College for her senior year. Women who are candidates for the degree of Bachelor of Letters in Journalism take the first two years of their course in Barnard College and the last two in the School of Journalism.

Detailed information in regard to these opportunities will be found in the announcements of Barnard College and the other schools concerned.

## REGISTER OF STUDENTS

### BARNARD COLLEGE

#### SENIORS—CLASS OF 1913

##### CANDIDATES FOR THE A.B. DEGREE

ARMSTRONG, NATHALIE VICTORIA.....	Upper Montclair, N. J.
AUERBACH, JENNIE GABRIEL.....	New York City
*BALLOT, MARTHE ROSALIE LAURE.....	New York City
BALMFORD, EDITH FRANCES.....	New York City
BERNAYS, HELLA FELICITAS.....	New York City
BISHOP, BEULAH IRENE.....	Delphos, Kan.
BROWN, ALICE GUNDESEN.....	Perth Amboy, N. J.
BUNZL, MADELAINE EMILY.....	New York City
BUTTENWIESER, CLARA.....	New York City
CAGLIOSTRO, CONCETTA LOUISE.....	New York City
CALLAN, MARION ELISABETH.....	New York City
*CLARKE, ROSEMARY.....	Lake Mahopac, N. Y.
*COMES, LOUISE.....	Hackensack, N. J.
CRADDOCK, CATHERINE ETHEL.....	New York City
CROSBY, HELEN MARGARET.....	Centerville, Mass.
DANA, HELEN MANLEY.....	Tarrytown, N. Y.
DAVIS, RUTH MIRIAM.....	New York City
DESSAR, AMY GRACE.....	New York City
DOENHOFF, DOROTHEA VON.....	New York City
DOUGLAS, ISABELLA PRESTON.....	New York City
DUYN, MARGUERITE ELIZABETH VAN.....	New York City
EMERSON, NANNIE MELL.....	Demarest, N. J.
*FEELEY, VERA ELIZABETH.....	New York City
FLEISCHMAN, DORIS ELSA.....	New York City
FLEMING, EDITH JOSEPHINE.....	New York City
*FOLAND, HELEN AUGUSTA.....	New York City
*FOX, ETTA BELLE.....	New York City
FRANKLIN, MARJORIE LORNE.....	New York City
*FREAR, IRENE LOUISE.....	New York City
*GLAHN, IRMA VON.....	Red Bank, N. J.
GLESS, MARIETTE LOUISE.....	Newark, N. J.
GOLDMAN, HARRIET LOIS.....	New York City
GOLDSTEIN, REBECCA.....	New York City
GOUGH, ZELLA MARY.....	Mount Vernon, N. Y.
*GRENELLE, MIRIAM BATHSHEBA.....	Haworth, N. J.
HALFPENNY, EDITH.....	Lynbrook, N. Y.
HARRIS, NAOMI.....	New York City
HASBERG, GLADYS STELLA.....	New York City
*HAWKEY, ETHEL MAY.....	Hackensack, N. J.

HENDRICKS, ROWENA	Mount Vernon, N. Y.
HESSBERG, MAY SYLVIA	New York City
HILBORN, RITA	New York City
HILDEBRAND, MARY ANNA	New York City
HORKHEIMER, PAULINE	Wheeling, W. Va.
HOUGHTON, ELEANOR GREGORY	Denver, Colo.
*HUBERT, EMMA SOPHIA	Mount Vernon, N. Y.
*HUBERTY, MARY AGNES	New York City
IRELAND, IMOGENE BELLE	Yonkers, N. Y.
JONES, EDITH LYDIA	New York City
JUNGHANS, BERTHA	New York City
*KATZ, MOLLIE	New York City
KELLEY, MARGARET FRANCES	Mount Vernon, N. Y.
KINCH, DOROTHY	New York City
LATZKE, PAULINE RENSHAW	New York City
LELAND, RACHEL HARRIETTE AMANDA	Buffalo, N. Y.
LINGG, SOPHIE CLAIRE	New York City
LOCKWOOD, PRISCILLA	New York City
McGIVNEY, VIRGINIA ISABELLE	New York City
MACDONALD, BESSIE NELSON	New York City
MAGID, AUGUSTA	New York City
MORRIS, GERTRUDE ELIZABETH	New York City
*MUMFORD, AMELIA ROBINSON	Saratoga Springs, N. Y.
*MURPHY, IRENE CECILIA	Weehawken, N. J.
NEACY, ANNA	Milwaukee, Wis.
NEUGASS, MARGUERITE MINNIE	New York City
NEWMAN, MARION ROSE	New York City
NEWMARK, SOPHIA	New York City
OERZEN, ELEANOR MARGUERITE	New York City
OSTERBERG, RUTH ANNA	New York City
PARKS, EDDIE THOMAS	New York City
PAWLEY, ANNABELLE	New York City
PAXTON, MARY	Abilene, Texas
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*REILLY, LILLIE	New York City
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Seniors—Class of 1913.....	106
*Candidates for the Teachers College Diploma in Education.	

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JACKSON, LILLIAN MARGUERITE.....	New York City
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WELLS, MABEL.....	New York City
WEZEL, ELSIE FELICITAS.....	New York City
WILKLOW, ETHEL CATHERINE.....	Highland, N. Y.
ZAGAT, HELEN.....	New York City

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## CANDIDATES FOR THE B.S. DEGREE

ANSORGE, FANNIE RICH.....	New York City
BREWER, RUTH ELLEN.....	New York City
CHABAUD, MARIE.....	Colchester, Conn.
COHEN, SELMA MABEL.....	Yonkers, N. Y.
DECKER, RUTH K.....	Stony Point, N. Y.
GOLDSTONE, EDITH HELEN.....	New York City
JACOBSON, FANNY ROSE.....	Shreveport, La.
KAPLAN, RACHEL DEBRA.....	New York City
KIRWAN, HELEN MURRAY.....	New York City
MANN, MARY LEE.....	New York City
MERRITT, MARJORY MAY.....	Farmingdale, N. Y.
MEYER, IRMA DOROTHY.....	New York City
OFFINGER, MARGUERITE ISABEL.....	Mount Vernon, N. Y.
REASER, DOROTHY YVONNE.....	Yonkers, N. Y.
ROLF, IDA PAULINE.....	New York City
SILLIMAN, FRANCES.....	New York City
TEDEN, ROSE MARIE.....	New York City
WALTHER, HELEN ELIZABETH.....	Mount Vernon, N. Y.
WHYTE, MARION INLEY.....	Tarrytown, N. Y.
YOUNGS, HELEN CATHERINE.....	New York City

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CANDIDATES FOR TRANSFER AT THE END OF TWO YEARS TO THE PROFESSIONAL  
SCHOOLS OF THE UNIVERSITY

ARNOT, MARY GLADYS.....	Spring Valley, N. Y.
BLOOM, HELEN.....	New York City
*CONNOLLY, MARION ELEANOR.....	Hohokus, N. J.
*DUNKIN, ROSALIND FRANCES.....	New York City
DUNPHY, GERTRUDE.....	New York City
FAUST, ESTELLA MARIE.....	Rochester, N. Y.
*FELIX, PAULINE ALLEGRA.....	New York City
*FOX, ALICE CHARLOTTE.....	Winfield Junction, N. Y.
LAW, MARGARET R.....	Mount Vernon, N. Y.
McENTEGART, CATHERINE JOSEPHINE.....	New York City
*McMURRAY, MADELEINE QUICK.....	Rockville Centre, N. Y.
RABINOWITZ, BERTHA.....	Jersey City, N. J.

ROSE, HELEN.....	New York City
SALOM, RUTH.....	Montclair, N. J.
SCHINDLER, GERTRUDE JOSEPHINE.....	New York City
*SMITH, MARY MCKINNON.....	New York City
*SOLOMON, ETHEL.....	New York City
THOMAS, CAROLINE MAUDE.....	Rye, N. Y.
TROWBRIDGE, KATHRYN PARKER.....	New York City
WALKER, FANNY JANE.....	Rye, N. Y.

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Freshmen—Class of 1916..... 162

## SPECIAL STUDENTS, MATRICULATED

GAY, KATHARINE.....	New York City
HARRIS, FLORENCE.....	Montclair, N. J.
HESS, RUTH JOSEPHINE.....	New York City
HESS, SARA STRAUS (Mrs. A. F. Hess).....	New York City
HUISKAMP, MARY MCGORRICK (Mrs. J. E. Huiskamp).....	New York City
LAW, LUCILE.....	Belton, Texas
McKELVEY, RUTH.....	New York City
TAYLOR, ETHEL C.....	Newark, N. J.
WALKER, MARY ELIZABETH.....	Brownwood, Texas
WERNER, PAULINE.....	New York City
WHITE, MARTHA ROOT.....	New York City
Matriculated special students.....	11

## SPECIAL STUDENTS, NON-MATRICULATED

CAREY, CORNELIA LEE.....	West Orange, N. J.
CATTELL, PSYCHE.....	Garrison, N. Y.
CLARK, HELEN CONVERSE.....	New York City
CLARK, MARY FRANCES.....	Plainfield, N. J.
CROCKETT, LOUISE.....	New York City
DAMROSCH, ALICE BLAINE.....	New York City
DIX, ANNIE STILLMAN.....	New York City
DODD, HELEN NORTHALL.....	Glen Ridge, N. J.
ELLINGER, GRACE JANE.....	New York City
FORD, CATHERINE.....	Waterbury, Conn.
JACKSON, MARTHA D.....	New York City
KISSEL, JEANNETTE THORN.....	New York City
LEROY, GRACE MOORE (Mrs. R. LeRoy).....	New York City
MACCARTHY, ISABEL HELEN.....	Waltham, Mass.
*MANDER, MARY JANE.....	Ponsonby, Auckland, N. Z.
MAYER, MATHILDE LOUISE.....	New York City
*MILLAR, LAURA.....	Montclair, N. J.
NORTON, ESTHER KING.....	Pelham Manor, N. Y.
OLCOTT, ELIZABETH BARKER.....	New Canaan, Conn.
PHILLIPS, RUTH BEALE.....	Goshen, N. Y.
PORTER, DOROTHY DWIGHT.....	Lawrence, N. Y.
SHEPARD, LAURA JOSEPHINE.....	Bethel, Conn.
SILVERMAN, LOUISE BLOCK.....	New York City
STERN, JOSEPHINE MAY (Mrs. J. Stern).....	New York City
TUTHILL, ISABEL HAWKINS.....	Rocky Point, N. Y.
TYLER, EMMA FRENCH.....	Hickman, Ky.
UPTON, LUCY.....	Orange, N. J.

\*Candidates for transfer to the School of Journalism.



WATKINS, FANNIE.....	Greenville, S. C.
WILLIAMSON, MARGARET.....	West Newton, Mass.
WILSON, FLORENCE.....	New York City
WINSLOW, ANNE ROGERS (Mrs. C. E.-A. Winslow).....	New York City
WOLFE, ISABELLE BOWMAN.....	Lewisburg, Pa.
YOUNG, MARION COULTHARD.....	New York City
ZENTGRAF, MARIE DOROTHY.....	New York City
Non-matriculated students.....	33

## SUMMARY

Seniors—Class of 1913:	
Candidates for the Barnard College A.B. degree alone....	83
Candidates for Barnard College A.B. degree and Teachers College diploma in education.....	20
Candidates for the Barnard College B.S. degree alone....	3
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	106
Juniors—Class of 1914:	
Candidates for the A.B. degree.....	134
Candidates for the B.S. degree.....	8
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	142
Sophomores—Class of 1915:	
Candidates for the A.B. degree.....	140
Candidates for the B.S. degree.....	5
Students in General Two-Year Course.....	5
	<hr/>
	150
Freshmen—Class of 1916:	
Candidates for the A.B. degree.....	127
Candidates for the B.S. degree.....	20
Students in General Two-Year Course.....	20
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	167
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	565
Special Students:	
Matriculated.....	11
Non-matriculated.....	34
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	45
University Students.....	38
Teachers College Students.....	120
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	150
	<hr/>
Grand Total.....	768

## TEACHERS COLLEGE

### Trustees

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### Faculty of Education

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Dean RUSSELL

Professors BAGSTER-COLLINS, BAKER, BIGELOW, BONSER, CATTELL, COHN, <sup>2</sup> COOLEY, DEWEY, DODGE, DOW, DUTTON, FARNSWORTH, FARRINGTON, GOODSELL, HILL, HILLEGAS, <sup>2</sup> JOHNSON, KILPATRICK, KINNE, LATHAM, LAVELL, LODGE, MCFARLANE, McMURRY, MACVANNEL, <sup>2</sup> MONROE, NORSWORTHY, PEARSON, PRETTYMAN, RUGER, SACHS, SMITH (D. E.), STEVENS, STRAYER, SUZZALLO, <sup>1</sup> THORNDIKE (E. L.), UPTON (*Secretary*), WOOD, WOODBRIDGE, WOODHULL.

### Faculty of Practical Arts

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Dean RUSSELL

Dr. ANDREWS, Professors BEMENT, BIGELOW, BONSER, <sup>2</sup> COOLEY, CORNELL, DOW, FALES, FARNSWORTH, GIES, KINNE, LUCKE, MCFARLANE, NOYES, NUTTING, ROSE, SHERMAN, SLEFFEL, SYKES, UPTON (*Secretary*), VAN ARSDALE, VULTÉ, WARNER, WEICK, WOOD.

### Other Officers of Instruction

ROBERT EMMET CHADDOCK, Ph.D., *Assistant Professor of Statistics*;  
MARY KINGSBURY SIMKHOVITCH, A.B., *Associate in Social Economy*; MAUD

<sup>1</sup> Absent on leave first half-year.

<sup>2</sup> Absent on leave second half-year.

MARCH, *Instructor in Physical Education*; CLARA BARBARA KIRCHWEY, *Instructor in Geography*; <sup>1</sup> JEAN BROADHURST, A.M., *Instructor in Biology*; ANNA BARROWS, *Instructor in Household Arts*; GEORGE T. HOLM, *Instructor in Physical Training*; SALLIE B. TANNAHILL, *Instructor in Fine Arts*; MARGARET MAUD ZERBE, *Instructor in Music*; EDWARD THATCHER, *Instructor in Fine and Industrial Arts*; LYDIA SOUTHARD, A.B., *Instructor in Household Arts*; LILLIAN CURTIS DREW, *Instructor in Physical Education*; ROLAND HUGH WILLIAMS, A.M., *Instructor in Physical Science*; CHARLOTTE A. FRANCIS, B.S., *Instructor in Physical Science*; ANNA WOODS BALLARD, A.B., *Instructor in French*; LOUISE CHRISTINE SUTHERLAND, B.S., *Instructor in Kindergarten*; CHARLOTTE GANO GARRISON, B.S., *Instructor in Kindergarten*; JULIA WADE ABBOT, *Instructor in Kindergarten*; MARY BULL HANCKEL, *Instructor in Fine Arts*; EVELYN SMITH TOBEY, B.S., *Instructor in Household Arts*; SADIE B. VANDERBILT, B.S., *Instructor in Chemistry*; MARY THEODORA WHITLEY, Ph.D., *Instructor in Educational Psychology*; CAROLINE E. STACKPOLE, A.M., *Instructor in Biology*; FLORENCE ELLA WINCHELL, B.S., *Instructor in Household Arts Education*; CORA MARGUERITE WINCHELL, B.S., *Instructor in Household Arts Education*; LYDIA RAY BALDERSTON, B.S., *Instructor in Household Arts*; ELLA PHILLIPS CRANDALL, *Instructor in Household Arts*; RUTH RENFIELD SILL, *Instructor in Household Arts*; HELEN LATHAM, *Instructor in Music*; FLORENCE R. CORBETT, M.S., *Instructor in Household Arts*; MARY HENLEY PEACOCK, Ph.B., *Instructor in Household Arts*; GRACE HITCHINGS BUCKNER, B.S., *Instructor in Fine Arts*; EMILY C. SEAMAN, Ph.D., *Instructor in Chemistry*; ISABEL MAITLAND STEWART, B.S., *Instructor in Nursing and Health*; MELINDA I. MANCHESTER, B.S., *Steward and Instructor in Household Arts*; LUCILE GRACE FRENCH, *Instructor in Household Arts*; CHARLES J. MARTIN, *Instructor in Fine Arts*; MARY G. MCCORMICK, A.M., *Instructor in Household Arts*; ANNIE E. MOORE, B.S., *Instructor in Elementary and Kindergarten Education*; BERTHA E. SHAPLEIGH, *Instructor in Household Arts*; ETHELWYN C. BRADISH, *Instructor in Fine Arts*; MARY PORTER BEEGLE, B.S., *Instructor in Physical Education*; LOIS COFFEY, B.S., *Instructor in Industrial Arts*; HELEN DONOVAN, B.S., *Instructor in Household Arts*; ANNA CECELIA THORNTON, *Instructor in Physical Education*; JESSE FEIRING WILLIAMS, A.B., *Instructor in Physical Education*; LAURA I. BALDT, B.S., *Instructor in Household Arts*; JOHN JAY WALSH, *Instructor in Industrial Arts*; MARY REESOR, A.M., *Instructor in Physical Education*; ELLEN BEERS MCGOWAN, B.S., *Instructor in Chemistry*; LILLIAN M. B. GUNN, *Instructor in Household Arts*; MATTHEW GRUENBERG BACH, A.M., *Instructor in German*; THOMAS H. BRIGGS, A.B., *Lecturer in English*; CLIFFORD D. CARPENTER, Ph.D., *Instructor in Chemistry*; JOSEPH H. CONSTANTINE, *Instructor in Industrial Arts*; ELIZABETH CHRISTINE COOK, Ph.D., *Instructor in English*; MARGARET GRAHAM,

<sup>1</sup> Absent on leave 1912-13.

A.M., *Instructor in Biology*; ROBERT GRAY, *Instructor in Household Arts*; MARGARET ODELL MCGOWIN, B.S., *Instructor in Household Arts*; HAROLD BROWN KEYES, *Instructor in Physical Education*; FRED FOREMAN GOOD, *Assistant in Physical Science*; JANET ROWLAND SEIBERT, A.M., *Recorder, Department of Physical Education*; ANNIE W. GOODRICH, *Lecturer in Nursing and Health*; M. GRACE DASCHBACH, *Lecturer in Music*; S. JOSEPHINE BAKER, M.D., *Lecturer in Nursing and Health*; CALVIN B. CADY, *Lecturer in Music*; WILLIAM JACOB KRAFT, B.Mus., *Lecturer in Music*; WALTER HENRY HALL, *Lecturer in Music*; CLARA D. NOYES, *Lecturer in Nursing and Health*; TEUNIS J. VAN DER BENT, *Lecturer in Household Arts*; LILLIAN D. WALD, *Lecturer in Nursing and Health*; CHARLES E.-A. WINSLOW, M.S., *Lecturer in Sanitation*; WILLIAM EDWIN BRECKENRIDGE, A.M., *Lecturer in Mathematics*; FELIX LAMOND, *Lecturer in Music*; ANNA ROGERS WINSLOW, *Lecturer in Household Arts*; BASCOM JOHNSON, *Lecturer in Physical Education*; MARY WROE CURTIS, *Assistant in Household Arts*; *Assistant in Latin and Greek*; MATILDA J. MCKEOWN, B.S., *Assistant in Household Arts*; EMMA H. GUNTHER, B.S., *Assistant in Household Arts*; AUGUSTA FOX BRONNER, A.M., *Assistant in Educational Psychology*; GRACE LILLIAN BROWN, *Assistant in Kindergarten Education*; ROSE F. EGAN, A.M., *Assistant in English*; CAROLINE EUSTIS SEELY, A.B., *Assistant in Mathematics*; EDITH BAER, *Assistant in Household Arts*; CORINNE BRAY, *Assistant in Household Arts*; ABBOTT L. COMBES, *Assistant in Industrial Arts*; FRANK EVANS DICKIE, A.B., *Assistant in Chemistry*; HERBERT E. EASTLACK, *Assistant in Chemistry*; ELSA LOUISE FRAME, *Assistant in Household Arts*; J. MONTGOMERY GAMBRILL, *Assistant in History*; HELEN S. GREEN, *Assistant in Chemistry*; GERTRUDE HAVENS, *Assistant in Household Arts*; JESSICA M. HILL, B.S., *Assistant in English*; FRANK C. PANUSKA, *Assistant in Industrial Arts*; SARA LYMAN PATRICK, *Assistant in Industrial Arts*; CLARA G. STAPLES, *Assistant in Household Arts*; ETHEL WICKWIRE, *Assistant in Chemistry*; BERNADINE YUNCK, *Assistant in Physical Education*.

Delegates to the University Council, see page 4.

## TEACHERS COLLEGE SCHOOLS

### Officers of Administration

Professor RUSSELL, *Dean*

" DUTTON, *Superintendent*

### Horace Mann School

SAMUEL TRAIN DUTTON, A.M., *Superintendent of Teachers College Schools*; VIRGIL PRETTYMAN, Pd.D., *Principal of High School*; HENRY CARR PEARSON, A.B., *Principal of Elementary School*; CHARLOTTE GANO GARRISON,

*Principal of Kindergarten*; MARION ROOT PRATT, *Executive Secretary*; ATOSSA NILSEN, *Secretary to Superintendent*; ALMA NILSEN, *Secretary to Principal of High School*; HELEN CRISSEY, *Secretary to Principal of Elementary School*; ETHEL ELLEN ROCKWELL, *Custodian of Library*.

#### Instructors and Assistants in Horace Mann Schools

VIRGIL PRETTYMAN, Pd.D., *Principal of High School*; ALLAN ABBOTT, *Head of Department of English*; JOSEPH CLIFTON BROWN, *Head of Department of Mathematics*; CHARLES MCCOY BAKER, *Head of Department of Classics*; WILHELM HELMUTH GOHDES, *Head of Department of Modern Languages*; ROLAND HUGH WILLIAMS, *Head of Department of Science*; KATE STUART ANTHONY, *Domestic Art*; OTTERBEIN ANDREW BAILEY, *Mathematics*; HELEN BARTLETT BAKER, *English*; ELIZABETH BRIGGS, *History*; FRANK ELBERT BROOKS, *French*; MARIE KARCHER BROOKS, *French*; HUGH HARRIS CALDWELL, *English*; LAURA BISHOP CRANDON, *German*; MARIA LOUISE DOWD, *Physical Training*; JOHN BATES EYSTER, *German*; FRANÇOIS B. DE LA FONTAINERIE, *French*; ARTHUR TAPLEY FRENCH, *Mathematics*; MARY BROWNSON GILLMORE, *History*; GEORGE THOMAS HOLM, *Swimming*; P. JOSEPH KERSEY, *Physical Training*; ERNST AUGUST KIORBOE, *French*; CLARA BARBARA KIRCHWEY, *Geography*; LILLIE MARIA LAWRENCE, *Latin*; ROBERT JOSSELYN LEONARD, *Industrial Arts*; ALTON T. LOCKHART, *Chemistry and Physics*; AMY LOGAN, *Domestic Science*; FORREST SUMNER LUNT, *English*; EMMA LENORE MACALARNEY, *English*; HARRY WHEELER MARTIN, *History*; OTTO MICHAEL, *German, Prussian Exchange Instructor, 1912-13*; WILLIAM JOSEPH NAGLE, *Latin*; JOHN DUELE NEITZ, *Special Teacher for Delinquent Pupils*; LILLA ANNE NOURSE, *Drawing*; J. ROBERT OVERMAN, *Mathematics*; W. B. PHELAN, *Latin*; CHARLES CONRAD SLEFFEL, *Forging*; FLORENCE STUART, *Physical Training*; JOHN VAN SANT, *Mathematics*; LELAND J. STACEY, *Chemistry and Physics*; THOMAS FRANCIS TAYLOR, *Substitute*; FLORENCE LOUISE WEEKS, *Mathematics*; CHARLES WILLIAM WEICK, *Wood-Working*; ELIZABETH MARIAN WHEELOCK, *English*; GRAY HUNTINGFORD WYMAN, *Latin*; WAYLAND SPAULDING, *Greek*.

#### Horace Mann Elementary School

HENRY CARR PEARSON, A.B., *Principal of Elementary School*; CLARA MABEL WHEELER, *First Grade*; FLORENCE MABEL MCVEY, *First Grade*; EVELYN BATCHELDER, *Second Grade*; MILDRED IONE BATCHELDER, *Second Grade*; ALICE ELIZABETH PHELPS, *Open-Air Class*; MARY A. OLIVER, *Open-Air Class*; ROXANA ALER STEELE, *Third Grade*; THEO R. STONE, *Third Grade*; IDA ELIZABETH ROBBINS, *Fourth Grade*; FLORENCE MAY MARSHALL, *Fourth Grade*; ELIZABETH CLEASBY, *Primary Grades*; MAUD VIVIAN KEYES, *Fifth Grade*; MARGARET CONDRIY, *Fifth Grade*; LURA PARKER FITCH, *Fifth Grade*; MARY FREDERIKA KIRCHWEY, *Sixth Grade*; MARY GERTRUDE PEABODY, *Sixth Grade*; SIEGRIED HANSEN UPTON, *Sixth*



*Grade*; CAROLINE WOODBRIDGE HOTCHKISS, *Seventh Grade*; LILLIAN EMILY ROGERS, *Seventh Grade*; GEORGIA FARRAND BACON, *Seventh Grade*; KATE STUART ANTHONY, *Domestic Art*; LUCIA WILLIAMS DEMENT, *Fine Arts*; HELEN LATHAM, *Music*; AMY LOGAN, *Domestic Science*; ROBERT JOSSELYN LEONARD, *Industrial Arts*; LUCY HESS WEISER, *Industrial Arts*; MARIE KARCHER BROOKS, *French*; LAURA BISHOP CRANDON, *German*; MARY PERLE ANDERSON, *Nature Study*; KATHARINE HOLLBROOK GILBERT, *Physical Training*; MARIA LOUISE DOWD, *Physical Training*; P. JOSEPH KERSEY, *Physical Training*; FLORENCE STUART, *Physical Training*; FAY WILLIAMS, *Physical Training*; GEORGE THOMAS HOLM, *Swimming*; GERTRUDE T. HARRIS, *Grammar Assistant*; GERTRUDE BIGELOW, *Primary Assistant*.

#### Horace Mann Kindergarten

CHARLOTTE GANO GARRISON, *Principal*; LOUISE CHRISTINE SUTHERLAND, *Teacher*; MEREDITH SMITH, *Assistant*; AGNES BURKE, *Assistant*.

#### Speyer School

AMY SCHÜSSLER, *Principal*; JULIA WADE ABBOT, *Kindergarten Critic*; ETHEL MARIA ROBINSON, *Assistant in Kindergarten*; BERTHA BENTLY, *First Grade Critic*; IZA EDITH ANDRIX, *Second Grade*; IDA BENNETT, *Third Grade*; MARGARET ELIZABETH WELLS, *Fourth Grade Critic*; HELEN BAILEY GOVER, *Fifth Grade*; BLANCHE EDNA CAMPBELL, *Sixth Grade Critic*; EDWIN AUGUSTUS LEE, *Seventh Grade*; FLORENCE VAN AUKEN WATKINS, *Eighth Grade Critic*; LAURA VALENTINE, *Social Worker and Assistant Librarian*; HELEN LATHAM, *Music*; ETHELWYN COVENTRY BRADISH, *Art Critic*; ROBERT JOSSELYN LEONARD, *Industrial Arts*; CORA MARGUERITE WINCHELL, *Domestic Science Critic*; FLORENCE ELLA WINCHELL, *Domestic Art Critic*; GERTRUDE K. COLBY, *Physical Training*; MARY ALMA WRIGHT, *Social Worker*; MABLE VAN DEVENTER, *Office Assistant*.

#### GENERAL STATEMENT

Teachers College, founded in 1888, and chartered by the regents of the University of the State of New York in 1889, became, in 1898, a part of the educational system of Columbia University. The President of Columbia University is President, *ex-officio*, of Teachers College and the College is represented in the University Council by its Dean and representatives elected from its Faculty. The College meanwhile maintains its separate corporate organization, and its Board of Trustees continues to assume entire financial responsibility for its maintenance. In 1912 the Trustees reorganized the faculty of Teachers College, establishing a Faculty of Education and a Faculty of Practical Arts. By this reorganization Teachers College now consists of two Schools, the School of Education and the School of Practical Arts.

## SCHOOL OF EDUCATION

The School of Education affords opportunity for the advanced study of educational psychology and sociology, the history and philosophy of education, educational administration, and the various aspects of secondary, technical, elementary, and kindergarten education. It also provides professional training, both theoretical and practical, for teachers of both sexes for secondary, grammar, and primary schools, and kindergartens; for special teachers of such technical subjects as household arts, industrial arts, fine arts, music, and physical education; and the preparation of advanced students for work as principals, supervisors, and superintendents of schools; as heads of academic or educational departments in normal and teachers' training schools, and of educational departments in colleges and universities. The School of Education is thus a professional school of Columbia University for the study of education and the training of teachers, taking academic rank with the Schools of Law, Medicine, Mines, Engineering, and Chemistry.

The following curricula are offered by the School of Education:

1. A two years' professional curriculum, leading to the degree of Bachelor of Science in Education and the Bachelor's Diploma in teaching, requiring for entrance the previous completion, at Columbia University or elsewhere, of two years of academic or technical training in advance of the usual requirements for college entrance. The work of the curriculum presents certain fundamental courses in educational psychology and the history and principles of education, a major subject of professional and academic work, in any department of the College, and a proportion of elective courses chosen at will.

2. Graduate curricula for advanced students leading to the Master's and Doctor's diplomas in teaching and to the degrees of Master of Arts and Doctor of Philosophy with a major subject in education. Such curricula provide work in educational psychology, the history and the philosophy of education, educational sociology, educational administration, secondary education, elementary education, and in research in the methods of teaching the various academic and technical subjects, supplemented by courses in other parts of the University. Courses in education may also be counted as minor subjects toward the advanced degrees, by students primarily registered in some other part of the University.

The professional curriculum is so arranged that undergraduate students of Columbia College and of Barnard College, and students who are prepared to enter the junior class of either of these colleges, may, if they desire, obtain the diploma of Teachers College at the time of receiving their degree of Bachelor of Arts.

Teachers who wish to supplement previous professional training are entered into these curricula with advanced standing, or into courses grouped especially for their needs.

The Horace Mann School and the Speyer School, maintained by Teachers College as schools of observation and experiment, include kindergarten, elementary, and secondary classes and neighborhood work, and offer exceptional advantages for the study of the practical work of teaching and for the investigation of educational problems. These schools have now an attendance of some thirteen hundred pupils.

### SCHOOL OF PRACTICAL ARTS

The School of Practical Arts was established to provide in the University system a new type of collegiate education, uniting liberal with technical training.

The School offers to both men and women who have completed a secondary school course, a program of study four years in length, equivalent in standards of admission and graduation to the traditional College course in letters and science. It includes in its program general cultural subjects, by which any particular curriculum may be enriched and extended, and offers, therewith, a broad and generous technical training, based on adequate instruction in science or the arts by which the student may receive a high type of vocational preparation in the varied fields falling within the scope of the School—in industrial arts, household arts, dietetics, institutional work, public health, fine arts, the art industries, music, and physical training. In coöperation with the School of Education of Teachers College, it prepares students as teachers in these fields.

The School of Practical Arts is organized as a School of full University grade, parallel to the Colleges of the University; it enjoys all the privileges of University membership, and its graduates receive the credentials of the University.

#### Admission

Students holding a diploma of graduation from an approved high or secondary school are admitted to the School of Practical Arts on certificate from the principal, provided the high-school course has covered four years' work and has included certain fundamental courses in English, history or foreign languages, and mathematics or science.\* Applications for admission should be made as far in advance of the desired time of entrance as is practicable, and must include statements from responsible persons that the candidate possesses the qualities of health, character, scholarship, and serious purpose required for successful work in the School of Practical Arts. The application should be made on a blank form which will be sent on request. Candidates, similarly vouched for, may also be admitted on examination of the College Entrance Examination Board or

\* All candidates for admission are required to offer  $14\frac{1}{2}$  units, to include: English, 3 units; mathematics or science, 2 units; foreign languages or history, 2 units; electives,  $7\frac{1}{2}$  units.

the Committee on Undergraduate Admissions of Columbia University, or on credentials from the Department of Education of the State of New York.

The School reserves the right to restrict the admission to the freshman year to the number of one hundred and fifty, and to select these according to merit.

Advanced standing may be granted to students who have completed, in a college, technical school, normal school or training school, courses in advance of high-school graduation. An application for admission to advanced standing should be made on a blank form which will be sent on request. For further information in reference to the requirements for admission (see p. 169).

### Program of Studies

The courses of study leading to the bachelor's degree occupy four years of work (124 points), for which the usual secondary school education is a required preparation. During the four years of study, approximately one-third of the student's time must be spent in general academic subjects (45 points), approximately one-third in technical subjects and technical training (45 points); the remainder (except for four required points in hygiene and physical training) of the 124 points needed for the degree must be distributed, according to the needs of the student, in either the general or the technical field. The program of study thus requires of all students a certain amount of fundamental general training in academic studies, but allows a freedom of election beyond the minimum requirements; it offers freedom of election in the choice of a group of studies of major interest, but requires systematic and progressive study in the group elected.

### Degrees and Certificates

The successful completion of the four years' course of study is recognized by the conferring of the degree of Bachelor of Science in Practical Arts by Columbia University.

Matriculated students who may be admitted to pursue a more limited vocational training of at least two years may receive a Technical Certificate from the School.

Students preparing for teaching may transfer not later than the beginning of the departmental fourth year of study to the School of Education and receive from Columbia University on the completion of their course the degree of Bachelor of Science in Education.

Graduate students in the field of practical arts are received in various departments of Teachers College as candidates for the degree of Master of Arts or Doctor of Philosophy.



### Buildings and Equipment of Teachers College

The buildings of Teachers College occupy the block directly north of the University Campus, bounded by 120th and 121st Streets, Amsterdam Avenue, and Broadway.

The Main Building, containing equipment for administration and instruction, the Bryson Library—the educational library of the University—and the Educational Museum, is adjoined by the Milbank Memorial Building, housing a number of academic and technical departments and containing the Memorial Chapel; by the Macy Manual Arts Building, with its exceptional equipment for work in Fine Arts and Industrial Arts; and by the new Household Arts Building. The Frederick Ferris Thompson Memorial Building for the department of Physical Education connects the Milbank Building on the west with the building of the Horace Mann School. On the east of it is Whittier Hall, the residence for the women students of the College. The building of the Speyer School is a short distance north of the College, on Lawrence Street, near Amsterdam Avenue.

### Scholarships, Prizes, and Honors

(See page 450)



## REGISTER OF STUDENTS

### Teachers College

### School of Education

### Graduate Students

### Candidates for the Doctor's Degree and Diploma

The following students are also registered under the Faculty of Philosophy and are pursuing a major course in Education in Teachers College. Minor courses not in Education are given in *italics* below:

- ALEXANDER, THOMAS, A.B. 1910, *Social Economy, Psychology*.....Kirksville, Mo.  
 BARRANCO, MANUEL, B.S. 1911, *Sociology*.....Mexico City, Mexico  
 BAWDEN, WILLIAM THOMAS, B.S. 1903.....New York City  
 BELCHER, ARTHUR WILLIAM, A.M. 1910, A.B. Harvard 1904, *Mathematics*.....Newark, N. J.  
 BROWN, HERBERT AUSTIN, A.M. 1912, B.S. Valparaiso 1907, A.B. 1908, *Social Economy*.....Huntington, Ind.  
 BURNHAM, REUBEN WESLEY, A.B. Amherst 1895, *Physical Science*...Brooklyn, N. Y.  
 CHAPMAN, IRA T., A.B. Ohio Wesleyan 1903, A.M. Harvard 1905...S. Norwalk, Conn.  
 CHIEN, HU TING, A.M. 1911, A.B. Harvard 1910, *Public Law, Sociology, History*.....Checkiang, China  
 CHILDS, HERBERT GUY, B.S. Minnesota 1897, A.M. Stanford 1911, *Psychology*.....Brooklyn, N. Y.  
 CLARKE, HOWARD ERNEST, A.B. Toronto 1909, A.M. 1911, *Philosophy*.....West Toronto, Can.  
 CROW, CHARLES SUMNER, A.B. West Virginia 1906, *Philosophy, Psychology*.....Point Marion, Pa.  
 CUTHBERT, HERMAN GIRVIN, A.B. Pennsylvania 1902, B.D. Rochester Theological Seminary 1907, A.M. Chicago 1911, *Psychology*...Philadelphia, Pa.  
 DAVENPORT, FRANCES ISABEL, B.S. 1904, A.M. 1912.....New York City  
 DOTY, AARON ISAAC, A.B. De Pauw 1890, A.M. 1893.....Brooklyn, N. Y.  
 DREW, WILBERT SHAPARD, A.M. 1910, B.S. Michigan 1897, *Social Economy, Psychology*.....Logan, Utah  
 ELLIFF, JOSEPH DOLIVER, A.B. Missouri 1903, A.M. 1906.....Columbia, Mo.  
 EVERSON, GEORGE, A.B. Oberlin 1908, *Sociology, Public Law, Economics*.....Wellington, Ohio  
 FICHANDLER, ALEXANDER, A.B. N. Y. U. 1905.....Brooklyn, N. Y.  
 FRAZEE, JOHN CLIFFORD, A.M. 1912, A.B. Coe 1904, *Chemistry*.....Pittsburgh, Pa.  
 HAWLEY, EDWIN CHESTER, A.B. Amherst 1901, A.M. 1904, *Oriental Languages*.....Shuntchufu, China  
 HEDGES, ANNA CHARLOTTE, B.S. 1905, A.M. 1906, *History, Economics*.....Brooklyn, N. Y.  
 HILL, LAWRENCE BENJAMIN, A.B. West Virginia 1906, A.M. Nebraska 1907, *Social Economy*.....Middlebourne, W. Va.

- HOKE, KREMER JACOB, A.M. 1911, A.B. Mt. St. Mary's 1904, *Social Economy*.....Richmond, Va.
- HOLMES, HILORY HERBERT, B.S. 1910, A.M. 1912, *History*.....Tensaw, Ala.
- HORN, ERNEST, B.S. Missouri 1907, A.M. 1908, *Philosophy*.....Princeton, Mo.
- HOVEY, HORACE MASON, A.B. Brown 1900, A.M. 1901.....Providence, R. I.
- KELLEY, TRUMAN LEE, A.B. Illinois 1909, A.M. 1911, *Neurology, Mathematics*.....New York City
- KELLY, FREDERICK JAMES, A.B. Nebraska 1902, *Social Economy*...Univ. Place, Nebr.
- KIRBY, THOMAS JOSEPH, A.M. 1910, A.B. Indiana 1906, *Psychology*..Indianapolis, Ind.
- KNIGHT, EDGAR WALLACE, A.B. Trinity (N. C.) 1909, A.M. 1911 *History*.....Durham, N. C.
- KUO, PINGWEN, A.M. 1912, B.S. Wooster 1911, *Sociology, Psychology, Chinese, Sociology*.....Shanghai, China
- LEVONIAN, LEON JOHN K., B.S. 1908, A.M. 1909, *Oriental Languages*...New York City
- MCLANE, FANNIE MOULTON, A.B. 1907, A.M. 1908, *English*.....New York City
- MCLAUGHLIN, ROY LAWSON, A.B. St. Mary's University 1911, A.M. Brown 1912, *Social Economy*.....Providence, R. I.
- MADDOX, WILLIAM ARTHUR, A.M. 1911, A.B. William and Mary 1904, *Psychology*.....Farmville, Va.
- MARGOSHES, SAMUEL, A.M. 1910, *Sociology*.....New York City
- MELVILLE, NORBERT JOHN, A.M. 1911, A.B. C. C. N. Y. 1904, *English*....."Hathaway," Deer Park, N. Y.
- MILLER, ELEANORA TIBBETS, A.B. Nebraska 1906, A.M. 1902, *Mathematics*.....Lincoln, Neb.
- NAGOURNEY, ISAAC, A.M. 1912, A.B. C. C. N. Y. 1906, *Public Law*...New York City
- OSTERHUS, PETER OLAI, A.M. 1911, A.B. Augsburg 1903, B.Pd. Val-paraiso 1905, B.S. 1906.....Hackensack, N. J.
- PAGE, DONALD TAYLOR, A.B. Dartmouth 1901, *Mathematics*.....Haverhill, N. H.
- PICKERING, HOWARD VINCENT, A.B. Toronto 1910, A.M. 1911, *Psychology*.....Winona, Ontario, Can.
- PINKHAM, GEORGE RIPLEY, A.B. Brown 1887, A.M. 1890, *Public Law*..Newark, N. J.
- RAPEER, LOUIS WIN, A.B. Chicago 1904, A.M. Minnesota 1907, *Sociology*.....New York City
- ROANTREE, WILLIAM FOX, A.B. Colgate 1904, *Mathematics*.....New York City
- ROCHESTER, MARY MURIEL, A.M. 1912, A.B. N. Y. N. C. 1908, *Roman Archaeology*.....New York City
- SEARS, MARY ELIZABETH, A.B. Goucher 1899, A.M. Radcliffe 1907...Mt. Vernon, N. Y.
- SEYBOLT, ROBERT FRANCIS, Ph.B. Brown 1910, A.M. 1911, *Philosophy, History*.....West New Brighton, N. Y.
- TAFT, LEANORA ELLEN, A.B. Maine 1910, *Psychology*.....Boston, Mass.
- TEWKSBURY, EVERETT BELKNAP, A.M. 1911, A.B. Harvard 1899, *Psychology*.....New York City
- THOMPSON, HELEN BISHOP, B.S. Kansas Agricultural 1903, M.S. 1907, *Household Arts Education*.....New York City
- TODD, THOMAS MARTIN, A.M. 1912, A.B. West Maryland 1909, *Psychology*.....East Orange, N. J.
- TUCKER, LOUISE EMERY, A.M. 1901, A.B. Adelphi 1900, *Philosophy*..Brooklyn, N. Y.
- TYNDALL, GERTRUDE VAN AUKEN, B.S. 1910, A.M. 1912, *Mathematics*.....Mt. Vernon, N. Y.
- WEGLEIN, DAVID EMRICH, A.B. John Hopkins 1897, *Mathematics*...Baltimore, Md.
- WHEAT, FRANK MERRILL, A.M. 1909, B.S. Kentucky 1908, *Botany, Biological Chemistry*.....Brooklyn, N. Y.
- WHITE, WINTON JOHN, A.B. Pennsylvania 1904, A.M. 1905.....Englewood, N. J.
- WILSON, GUY MITCHELL, A.B. Indiana 1900, A.M. 1908, *Social Economy*.....New York City

## Candidates for Master's Degree and Diploma

The following students are also registered under the Faculty of Philosophy and are pursuing a major course in Education in Teachers College. The minor courses not in Education are given in italics below:

- ALFKE, ETHEL VIOLET, B.S. 1912, *History*.....New York City  
 ALLAN, AGNES CECILIA, A.B. New Rochelle 1909.....New York City  
 ALLEN, RUSSELL HALL, A.B. De Pauw 1906.....Brooklyn, N. Y.  
 ALPERIN, DANIEL MAXWELL, A.B. C. C. N. Y. 1912, *English*.....New York City  
 ASHCROFT, CARRIE VAN RENSSELAER, B.S. 1906, *History*.....New York City  
 AVENT, JOSEPH EMERY, A.B. North Carolina 1901, *Psychology*....Goldsboro, N. C.  
 BADER, EDITH, A.B. Indiana State Normal 1910, *Philosophy*....Terre Haute, Ind.  
 BENNETT, GEORGE LIONEL, A.B. Colgate 1900.....Hackensack, N. J.  
 BERKSON, ISIDOR BAER, A.B. C. C. N. Y. 1912, *Sociology, History*....New York City  
 BIDSTRUP, GERDA, B.S. 1912.....Brooklyn, N. Y.  
 BIRNBAUM, BENJAMIN H., B.S. C. C. N. Y. 1912, *Sociology*.....New York City  
 BLEND, ARVA ERASTUS, B.S. 1907.....Glen Ridge, N. J.  
 BLODGETT, SHIRLEY MINERVA, Ph.B. Boston 1902, *English*.....Campello, Mass.  
 BOEHMKE, MATTHIAS, A.B. Victoria (South Africa) 1900, *Social  
 Economy*.....Berlin, Cape Province, South Africa  
 BOND, SYRUS ORESTES, A.B. Salem 1904, A.B. West Virginia 1909,  
*Psychology*.....Lost Creek, W. Virginia  
 BOSHART, EDWARD WILLIAM, B.S. 1911.....Mt. Vernon, N. Y.  
 BRADY, KATHERINE ROGERS, B.S. 1912.....Brooklyn, N. Y.  
 BRADY, MARIE, A.B. N. Y. N. C. 1907, B.S. Copper Union 1909, *Mathe-  
 matics*.....Brooklyn, N. Y.  
 BRAINARD, ALBION HALE, A.B. Colby 1888, A.M. 1893.....Arlington, N. J.  
 BRAINARD, PAUL PORTER, A.B. Whitman 1909, *Psychology*.....Payette, Idaho  
 BRENNEMAN, LEO LESLIE, B.S. 1912, B.E. Juniata 1905, M.E. 1910,  
*Psychology*.....Pottstown, Pa.  
 BRENT, HENRY MASON, A.B. Randolph-Macon 1906, *History*....Heathsville, Va.  
 BROOKS, ROBERT PEACOCK, B.S. N. Y. U. 1911.....Ridgewood, N. J.  
 BULLOCK, WILLIAM WALLACE, Ph.B. Colgate 1899.....Hastings-on-Hudson, N. Y.  
 CAPPS, JOHN EDGAR, A.B. William and Mary 1911, *Social Economy*  
 .....Princess Anne, Va.  
 CARR, NOEL CLEVELAND, A.B. Texas Christian 1912, *Social Economy*..Plano, Texas  
 CARRIS, LEWIS HERBERT, B.L. Hobart 1898, *English*.....Newark, N. J.  
 CARTER, OLIVE INGALLS, A.B. Smith 1911, *English*.....Scranton, Pa.  
 CENTER, STELLA STEWART, A.B. Nashville 1901, Ph.B. Chicago 1911,  
*English*.....Forsyth, Ga.  
 CHAPMAN, B. BURGOYNE, A.B. Sydney (Australia) 1908, A.M. 1910,  
 A.B. Cambridge (England) 1912, *Psychology*....Pymble, N. S. W. Australia  
 CHIANG, MONLIN, B.L. (pending) California, *Psychology*.....Shanghai, China  
 CHING, TSO YEE, A.B. Pekin 1908, *Psychology*.....Canton, China  
 CLEAVER, WILLIAM GEISS, A.B. Franklin and Marshall 1896.....Elkins Park, Pa.  
 COHEN, BERTHA, A.B. Adelphi 1910, *Mathematics*.....Brooklyn, N. Y.  
 COLEMAN, KATHERINE, B.S. 1911, *Household Arts*.....New York City  
 COMFORT, MABEL MEEK, A.B. Industrial Institute and College (Miss-  
 issippi) 1904, *Mathematics*.....Kosciusko, Miss.  
 COPELAND, LILLIAN SMITH, A.B. Boston 1909.....North Reading, Mass.  
 CORNISH, HUBERT RAY, B.S. 1910, *Psychology*.....Paterson, N. J.  
 COUSE, HENRY, A.B. Princeton 1909.....Hancock, N. Y.  
 CRAIG, WILLIAM CHRISTY, Ph.B. Mt. Union 1908, B.D. Drew Theo-  
 logical 1911, *Religious Education*.....Byesville, Ohio  
 CRANSTON, GEORGIA, A.B. Dickinson 1906.....Harrisburg, Pa.

- DALE, JULIA, B.S. 1912.....New York City
- DAVIS, JOSEPHINE EMMA, A.B. Pomona 1908, *Household Arts*....Pasadena, Calif.
- DECKER, ALICE MABEL, A.B. Wellesley 1909, *English*.....East Orange, N. J.
- DE GRAFF, FORREST ALLISON, B.S. 1907, *Mathematics*.....Middleport, N. Y.
- DEUTSCH, JULIA, B.S. 1911, *History*.....New York City
- DICKEY, FRANCES M., B.S. 1912, *Social Economy, Music*.....Cedar Falls, Ia.
- DOHERTY, MARY, B.S. 1912, *Mathematics*.....Ovid, N. Y.
- DOW, ULA MAY, B.S. Kansas State Agricultural 1905, *Household Arts*,  
*Social Economy*.....Manhattan, Kans.
- DUKE, SAMUEL PAGE, A.B. Randolph-Macon 1906.....Ferrum, Va.
- DUSHKIN, ALEXANDER MORDECAI, A.B. C. C. N. Y. 1911, *Sociology*...New York City
- ECKFORD, MARTHA OLIVER, B.S. Industrial Institute and College (Mississippi) 1907, *Zoölogy, Bacteriology*.....Aberdeen, Miss.
- EDWARDS, JANE CURTIS, A.B. Bates 1910, *Latin, German*.....Fairfield, Me.
- EGAN, HANNAH MARY, A.B. N. Y. N. C. 1911, *Mathematics*.....New York City
- ERNST, FREDERIC, A.B. C. C. N. Y. 1902, *English*.....New York City
- FICKETT, MARY GRACE, A.B. Tufts 1896, *English*.....W. Somerville, Mass.
- FIELD, ADA MARTITIA, A.B. Guilford 1898, A.M. Washington 1909,  
*Household Arts*.....Newman, Ga.
- FIELD, FRANK MERLE, A.B. Waynesburg 1904, *Social Economy*.....Dunkard, Pa.
- FITTS, JOSEPH COOKE, A.B. Princeton 1912, *Mathematics*.....Washington, N. J.
- FRAME, RACHEL MOORE, A.B. 1910, *English*.....Mt. Vernon, N. Y.
- FROST, NORMAN, A.B. Oberlin 1909.....Berea, Ky.
- GAMBRILL, JOHN MONTGOMERY, *History, Psychology*.....Baltimore, Md.
- GARDNER, LUCY, Ph.B. Chicago, 1909 *English*.....Oneonta, N. Y.
- GARRISON, CHARLOTTE GANS, B.S. 1909, *Sociology*.....New York City
- GILLETTE, CHARLOTTE EMMA, A.B. Syracuse 1909.....Watertown, N. Y.
- GOODWIN, RUTH SHARPLESS, A.B. Wellesley 1898, *History*.....Philadelphia, Pa.
- GREGG, RACHEL ELIZABETH, B.S. 1909.....Citra, Fla.
- HAENSSLER, FLORENCE, A.B. Wellesley 1911, *Mathematics*.....Brooklyn, N. Y.
- HALL, DELBERT EUGENE, A.B. Grove City 1905, A.M. 1907, *Philosophy*.....Mills, Pa.
- HALL, HELEN CAMPBELL, A.B. Vassar 1912, *Latin*.....Brooklyn, N. Y.
- HAMEL, GEORGIANA, B.S. 1912.....Newark, N. J.
- HANLEY, FRANCES LEE, A.B. N. Y. N. C. 1902, B.S. N. Y. U. 1908..New York City
- HARVEY, LOUISE, A.B. N. Y. N. C. 1911, *Mathematics*.....New York City
- HERTZ, LILLIAN, A.B. N. Y. N. C. 1910, *Mathematics*.....New York City
- HOBART, INEZ MARTHA, B.S. Minnesota 1908, *Household Arts*...Minneapolis, Minn.
- HOFFMAN, MARK, B.S. C. C. N. Y. 1897, *English*.....New York City
- HOLLINGWORTH, LETA STETTER (MRS.), A.B. Nebraska 1906, *Sociology, Psychology*.....New York City
- HOLLOWAY, EDITH, A.B. Indiana 1908, *Psychology, English*.....Greencastle, Ind.
- HOOD, GRACE GORDON, B.S. 1912, *Sociology, Psychology*.....Chicago, Ill.
- HOWARD, JUANITA PRISCILLA, A.B. Howard 1912, *English*.....Washington, D. C.
- HOWARD, MARGARETTE ELIZABETH, B.S. 1907, *Philosophy*.....Summit, N. J.
- IMMEL, WOODSON CLARE, B.S. Purdue 1908.....Mt. Vernon, N. Y.
- ING, ZAUNG TEH, B.S. Wooster 1912, *Chemistry, Chinese*.....Shanghai, China
- JACOB, LOUISA MARY, B.S. 1912, *Psychology*.....Moylan, Pa.
- JANSEN, WILLIAM, B.S. 1908, *Mathematics*.....New York City
- JOHNSON, VIVIAN ELMA, A.B. Howard 1912, *English*.....Memphis, Tenn.
- KEARNEY, MAURICE WALTER, A.B. Holy Cross 1907, *Physics*....Poquonock, Conn.
- KEELER, RALPH WELLES, A.B. Wesleyan 1904, A.M. 1909, B.D. Drew  
Theological 1907.....New York City
- KELLY, LAWRENCE ALOYSIUS, JR., B.S. C. C. N. Y. 1905, *Mathematics*.....New York City



- KLEIN, CHARLES LOUIS, B.S. 1908.....New York City  
 KLEINMAN, PHILIP, A.B. C. C. N. Y. 1911, *Sociology, Psychology*.....Brooklyn, N. Y.  
 KRUMBECK, WALTER, B.S. 1911, B.S. Harvard 1910, *History*.....Brooklyn, N. Y.  
 KURTZ, EDWARD, B.S. 1912.....Olney, Ill.  
 LAMPORT, ANNA, A.B. N. Y. N. C. 1909, *Mathematics, Philosophy*.....New York City  
 LANE, WILLIAM KINGSBURY, A.B. Williams 1901.....Brooklyn, N. Y.  
 LANIER, ETHEL RIDLEY, A.B. Drury 1909, *English*.....Springfield, Mo.  
 LATHAM, HATTIE MAUD, A.B. Smith 1912, *English*.....Columbia, Conn.  
 LEMAN, GEORGE WASHINGTON, B.S. C. C. N. Y. 1909, *Sociology*.....Brooklyn, N. Y.  
 LEVENE, HARRY, B.S. 1908.....New York City  
 LEWIS, JAMES CAMPBELL, JR., A.B. Kentucky 1908, *Social Economy, Psychology*.....London, Ky.  
 LILLEY, MARY SALMOND, A.B. University College (London) 1904, *Psychology, English*.....Arbroath, Scotland  
 LOBSENZ, JOHANNA, A.B. N. Y. N. C. 1911, *German*.....New York City  
 LODGE, NELLIE, B.S. Swarthmore 1897, *Zoölogy, Biology*.....National Park, N. J.  
 LOGIN, CHARLES, A.B. C. C. N. Y. 1907, *English*.....New York City  
 LORING, JACOB MELDOL, A.B. Bowdin 1898, *English*.....Yarmouth, Me.  
 LOUGHRAN, GEORGE ANDREW, B.S. N. Y. U. 1907, *Public Law*.....New York City  
 LOWRY, ELLSWORTH, A.B. Texas 1909.....Martinsville, Ill.  
 LUCE, ERNEST BURT, B.S. 1912, *Psychology*.....Ridgefield Park, N. Y.  
 MCCARTHY, MARGARET, A.B. Carleton 1907, *Sociology, Geography*.....Madelia, Minn.  
 MCCARTHY, ROY DALE, Ph.B. Upper Iowa 1908, *Social Economy, Psychology*.....Red Wing, Minn.  
 MCCLELLAND, THOMAS KNOX, A.B. N. Y. U. 1899, A.M. 1901.....Newark, N. J.  
 MACDONALD, LAURA ANNA, A.B. Oberlin 1904, *Latin*.....Beaver Dam, Wis.  
 MACDONALD, MAY CECILIA, B.S. Minnesota 1907, *Household Arts*.....Minneapolis, Minn.  
 MCKAY, LIZZIE O., B.S. Utah Agricultural 1909, *Household Arts*.....Ogden, Utah  
 MAKI, ITSU, A.B. Illinois 1912.....Shimodate, Hitachi, Japan  
 MANDEL, SAMUEL, A.B. C. C. N. Y. 1906, *Mathematics*.....Brooklyn, N. Y.  
 MARCH, AMY GILSON, Ph.B. Wooster 1912.....Beirút, Syria  
 MARCH, ARTHUR WILLIAM, Ph.B. Wooster 1905, *Psychology*.....Hangchow, China  
 MARTIN, ALICE CRAIG, A.B. 1912, *Latin*.....Jersey City, N. J.  
 MATIENZO, CARLOTA, B.S. 1911, *French, History*.....Ponce, Puerto Rico  
 MERTZ, PAUL ALLEN, A.B. Ursinus 1910, *English*.....Plainfield, N. J.  
 MILLER, CHARLES WINTHROP, A.B. Clark 1905, *Psychology*.....Worcester, Mass.  
 MILLER, DONALD HERBERT T., A.B. 1907, *Psychology*.....Binghamton, N. Y.  
 MORSE, LOUIS THEODORE, B.S. 1912, *English*.....Brooklyn, N. Y.  
 MOSES, ISIDORE, A.B. C. C. N. Y. 1911 *Mathematics*.....New York City  
 MURDOCK, KATHARINE, B.S. 1912, *Psychology, Sociology*.....Pittsburgh, Pa.  
 NESTER, DANIEL HENRY, A.B. Bucknell 1911.....New Ringgold, Pa.  
 NEWELL, GEORGE MERRIAM, B.S. Wesleyan 1904.....Foochow, China  
 OBERLIN, MARY LAVINIA, A.B. Ohio 1909, *Household Arts, English*.....Massillon, Ohio  
 O'BRIEN, CHARLOTTE ELIZABETH, A.B. N. Y. N. C. 1910, *Mathematics*.....New York City  
 OLLORTON, MARY JANE, A.B. Brigham Young 1912.....Parowan, Utah  
 PAGE, FRANK RUSSEL, A.B. Harvard 1896.....New Brighton, S. I.  
 PARMENTER, EDWARD LEROY, B.L. Michigan 1886, *Social Economy*.....Menominee, Mich.  
 PAXTON, SHELBY, A.B. N. Y. N. C. 1910, *English*.....New York City  
 PEABODY, ELSIE PRESTON, A.B. Mt. Holyoke 1905, *English*.....Danvers, Mass.  
 PHELPS, BENJAMIN JUDAH, A.B. Yale 1902.....Plainfield, N. J.  
 PINKHAM, FLORENCE ADA, B.S. Bates 1910.....Lewiston, Me.  
 POTTER, FRANCIS MARMADUKE, A.B. Rutgers 1908, A.B. Oxford (England) 1911.....Metuchen, N. J.  
 PRATT, MARY BINGHAM, B.S. 1911.....Wellesley Hills, Mass.



- PRESTON, AMY, A.B. Tennessee 1906, *Mathematics*.....Knoxville, Tenn.
- PURVIS, WILBUR BERTRAM, A.B. Brown 1912, *Latin*.....Norwich, Conn.
- REAVELEY, JOHN, A.B. Wesleyan 1898, *Psychology, Sociology*....Gloucester, Mass.
- REICHARD, SAMUEL, B.S. 1912.....Brooklyn, N. Y.
- RIBLET, GRACE ELIZABETH, B.S. 1908, A.B. N. Y. N. C. 1903.....Fanwood, N. J.
- RICHARDSON, CHARLOTTE, B.S. 1912, *Philosophy*.....New York City
- ROBINSON, EVA ANNIE, A.B. Toronto 1902, A.M. 1908.....Owen Sound, Ontario, Can.
- ROSE, CLINTON EMMETT, A.B. Kansas 1899, *Psychology, Social Economy*.....Boise, Idaho
- ROSENDALE, CHRISTENA, State Normal (Kansas) 1912, *History, Psychology*.....Cawker City, Kan.
- ROTHERMEL, ELIZABETH, A.B. California 1899, *Household Arts, Chemistry*.....San Francisco, Calif.
- RUSSELL, WILLIAM FLETCHER, A.B. Cornell 1910, *Psychology*.....New York City
- SAWYER, CLARENCE JEROME, A.B. South Carolina 1908, *Psychology, Social Economy*.....Ward, S. C.
- SCHOETTLE, GEORGE HENRY, B.S. C. C. N. Y. 1908.....New York City
- SCOTT, ZENOS EDMUND, B.S. Moores Hill 1912, *Psychology, Social Economy*.....Moores Hill, Ind.
- SEALS, LAURA SELDON, B.S. 1912, *Mathematics*.....New York City
- SEIBEL, ADOLPH, A.B. Tri-State 1910, *Psychology*.....Delta, Ohio
- SELLECK, ANNE, B.S. 1910, A.B. Bryn Mawr 1904.....Westport, Conn.
- SHARP, DAISY COCHRAN, A.B. Pennsylvania (Pittsburgh) 1912, *Latin*..Pittsburgh, Pa.
- SHIVELY, BENJAMIN FRANKLIN, A.B. Otterbein 1905, B.D. Bone-broke Theological 1907, *Psychology*.....Fayetteville, Pa.
- SIMMONS, KATE CAMERON, B.S. 1912.....Brooklyn, N. Y.
- SIMONDS, EUGENE FRANCIS, A.B. Sidney (Australia) 1910, B. S. 1911, *Physics, Mathematics*.....Blacktown, N. S. W. Australia
- SIMPSON, HOMER NELSON, A.B. Cornell 1909, *Geography, Geology*..Rutherford, N. J.
- SINDELAR, CHARLES, B.S. C. C. N. Y. 1896.....New York City
- SKINNER, LILA, B.S. South Dakota Agricultural 1912, *Household Arts*.....Brookings, S. D.
- SNOW, ELLA MARION, B.S. 1906, *French, Romance Philology*....Fairhaven, Mass.
- SNYDER, EMANUEL E., A.B. Lebanon Valley 1906, *Social Economy, Psychology*.....Yoe, Pa.
- SPEECE, HAROLD EUGENE, B.S. 1912, *History*.....Mt. Vernon, N. Y.
- STALNAKER, ELIZABETH MATTINGLY, A.B. West Virginia 1902, *French*.....Martinsburg, W. Va.
- STAVEL, WILSON WILLIAM, Ph.B. Bucknell 1907.....Englewood, N. J.
- STEELE, STELLA ELIZABETH, B.S. Missouri 1909, A.B. 1910, *Household Arts*.....Mobile, Ala.
- STEWART, HUGH HENRY, B.S. 1911, *History*.....Mt. Vernon, N. Y.
- STOUTENBURGH, CHARLES HALL, E.E. 1905, *Mathematics*.....New York City
- STRYKER, RUSSELL FOOTE, A.B. Rutgers 1910.....Bound Brook, N. J.
- SWAINSON, ANNA ELIZABETH, B.S. Missouri 1909, *Psychology*.....Nevada, Mo.
- TABER, VIVIAN HANNAH, Ph.B. Boston 1902, *English*.....Unity, Me.
- TALCOTT, MABEL HALL, A.B. Michigan 1907, *History*.....Elmwood, Conn.
- TALLMAN, LAVINIA, A.B. Vassar 1904, *Religious Education*.....East Orange, N. J.
- TAYLOR, CHESTER EDWIN, A.B. Boston 1908, *Psychology*.....New York City
- THOMPSON, FRED LORING, B.S. Amherst 1904, *Biological Chemistry*..New York City
- THOMPSON, JOHN GRANT, B.S. 1912, *History*.....New York City
- THOMPSON, LUCY IRENE, A.B. 1909.....Pittsburgh, Pa.
- TILLINGHAST, CHARLES CARPENTER, A.B. Brown 1906.....Englewood, N. J.
- TREASURE, JAMES FRANKLIN, A.B. Park 1908, A.M. 1909.....Kirksville, Mo.
- TWADDLE, HUGH W., B.S. 1909.....Harrison, N. Y.

VAN SCHAICK, LEMUEL W., A.B. Colgate 1904.....Scarsdale, N. Y.  
 WALKER, MARY BARBOUR, A.B. 1907, *Mathematics, Philosophy*..Washington, D. C.  
 WALSH, JOHN JOSEPH, B.S. 1912, *Psychology*.....New York City  
 WALTER, CORNELIUS JACOB, B.S. Pennsylvania 1908.....Philadelphia, Pa.  
 WEINTROB, RALEIGH, B.S. 1912, *Psychology*.....Atlantic City, N. J.  
 WELLES, JAMES BELL, A.B. Union 1909, *Psychology, Social Economy*..Geneseo, N. Y.  
 WELLES, MARY, A.B. Wellesley 1911.....Geneseo, N. Y.  
 WELLS, MARGARET ELIZABETH, B.S. 1911.....Reading, Pa.  
 WETTLIN, EMMA LOUISE, B.S. 1902.....Westfield, N. J.  
 WILFORD, MARY GERTRUDE, B.S. 1912, *Psychology, Latin*.....New York City  
 WILLIAMS, EDGAR JOHN, B.S. 1912.....Paterson, N. J.  
 WILSEY, LEROY COLVER, Litt.B. Rutgers 1912, *English, Psychology*..Newark, N. J.  
 WINCHESTER, ALMIRA MUNN, B.S. 1911, *Philosophy*.....Merritton, Ontario, Can.  
 WOOD, JAMES FRANKLIN, A.B. Mercer 1902, *Psychology*.....Young Harris, Ga.

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BALDWIN, DOROTHY MARTHA, A.B. Vassar 1912.....Tioga, Pa.  
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 BOGHOSSIAN, SEROPÉ GARABED, A.B. St. Paul's 1910....Kessab, Aleppo, Turkey  
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 CATE, WILLIAM E., A.B. Harvard 1895.....Long Branch, N. J.  
 CHRISTIANSEN, ADOLPH ODIN, A.B. Brown 1912.....Jersey City, N. J.  
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 DRESSSEL, HERMAN, JR., B.S. Norwich 1890, A.M. 1895.....Arlington, N. J.  
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 GARRITT, ALBERT WARNER, B.S. C. C. N. Y. 1890.....Leonia, N. J.  
 GOODRICH, FOSTER, B.S. Worcester 1893.....New York City  
 HANEY, JOHN DEARLING, Ph.D. 1910, B.S. C. C. N. Y. 1893.....New York City  
 HARADA, KICHI, A.M. 1912.....Ashikaga, Tochigi-ken, Japan  
 HARDING, KATHERINE ANNA, B.S. 1912, A.B. Adelphi 1910.....Brooklyn, N. Y.  
 HILKER, HEDWIG W. D., Pd.M. N. Y. U. 1904.....Crestwood, N. J.  
 HOSMER, HELEN, A.B. Wisconsin 1909.....Ashland, Wis.  
 JESSER, FLORENCE MAY, A.B. Vassar 1909.....Richmond Hill, N. Y.  
 JOSEPH, DENORAH M., A.B. N. Y. N. C. 1894, Pd.M. N. Y. U. 1897,  
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 KARASAWA, MOKUSABURO, LL.B. Tokyo (Japan) 1906.....New York City  
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 KINNISON, EFFIE JANE, Ph.B. Northwestern 1903.....Port Richmond, S. I.  
 KNEELAND, HILDEGARDE, A.B. Vassar 1911.....Brooklyn, N. Y.  
 LANDENS, LELAND LEROY, A.B. Cornell 1890.....Richmond Hill, N. Y.  
 LAW, MARION FOX, A.M. 1912, A.B. N. Y. N. C. 1909.....New York City  
 LEVENTHAL, M. J., A.M. 1912, A.B. C. C. N. Y. 1911.....New York City  
 LEWIN, LUDWIG, Berlin University.....New York City  
 LEWIS, FREDERICK T., B.S. N. Y. U. 1908.....Brooklyn, N. Y.  
 LOVELL, GILBERT, A.B. Yale.....Plainfield, N. J.  
 McCRAE, ANNIE, B.S. 1912.....New York City  
 MARTIN, ALICE, B.S. 1907.....New York City

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MILLER, JOSEPH, A.B. C. C. N. Y. 1910.....	Newark, N. J.
MONROE, WILL S., A.B. Stanford 1894.....	Montclair, N. J.
MOUNTSIER, MABEL, A.M. 1910.....	Charleroi, Pa.
NORTH, MARY, A.B. Wellesley 1897.....	Montclair, N. J.
PENNELL, MARY ELIZABETH, B.S. 1911.....	Westbrook, Me.
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RIETHMILLER, OLIVER CLEVELAND, A.B. Harvard 1912.....	Wilkinsburg, Pa.
ROBBINS, CHARLES LEONIDAS, Ph.D. 1912, A.M. Kansas 1903.....	Russell, Kan.
SAILER, THOMAS H. P., A.B. Princeton 1889, Ph.D. Pennsylvania 1895	
.....	Englewood, N. J.
SAYRE, GEORGE HENRY, B.S. N. Y. U. 1908.....	Closter, N. J.
SKINNER, GERTRUDE ELIZA, B.S. 1912.....	Brooklyn, N. Y.
SMITH, ERNEST A., A.B. Ohio Wesleyan 1888, A.M. Johns Hopkins 1891,	
Ph.D. 1900.....	Princeton, N. J.
STOUTMEYER, JOHN HOWARD, A.B. Kalamazoo 1905, A.B. Chicago 1906,	
Ph.D. Clark 1910.....	Onarga, Ill.
SUGERMAN, SARAH C., A.B. Smith 1911.....	New York City
TAYLOR, EDSON HOMER, B.S. National Normal 1896, A.M. Chicago	
1905, Ph.D. Harvard 1909.....	Charleston, Ill.
TILTON, HAROLD HOYT, A.B. Harvard 1905.....	Elizabeth, N. J.
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BEAR, KATE LUTIE ( <i>Household Arts</i> ).....	Baton Rouge, La.
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BEEMAN, CHARLES RICHARD ( <i>Industrial Arts</i> ).....	Union, N. Y.
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BERNARD, JEAN ( <i>Elementary Supervision</i> ).....	London, Ontario, Can.
BERNEKOPF, CHARLOTTE SOPHIE ( <i>German</i> ).....	New York City
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BILL, LILLAS SEBASTIAN ( <i>Elementary Supervision</i> ).....	Chicago, Ill.
BIRNBAUM, HARRY ( <i>English</i> ).....	New York City
BLAKE, ANNE SEYMOUR ( <i>Kindergarten Supervision</i> ).....	Brooklyn, N. Y.
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BOWER, SARAH ELIZABETH ( <i>Household Arts</i> )	North Adams, Mass.
BREWTON, MARY MAUDE ( <i>Mathematics</i> )	Mt. Vernon, Ga.
BRICKNER, BARNETT ( <i>Elementary Supervision</i> )	New York City
BRIDGE, HELEN LILLIAN ( <i>Nursing and Health</i> )	Franklin, Ohio
BROKAW, ESTHER ( <i>German</i> )	Kearny, N. J.
BROWN, ETHEL LIONELLE ( <i>History</i> )	Brooklyn, N. Y.
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BUCK, LEROY LANGDON ( <i>Music</i> )	Plattsburg Bks., N. Y.
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**COOK, THERESA MABEL	Northampton, Mass.
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DONOHUE, JOHN JOSEPH ( <i>English</i> )	New York City
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EMMONS, WILLIAM HERMAN ( <i>Geography</i> )	Bloomington, N. Y.
EVANS, WILLIAM BACON ( <i>French</i> )	Moorestown, N. J.
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FELEKY, ANTOINETTE (MRS.) ( <i>Psychology</i> )	New York City
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FLARIDA, EDNA MAY ( <i>Fine Arts</i> )	Reed City, Mich.
*FOLAND, HELEN AUGUSTA ( <i>Mathematics</i> )	New York City
*FOX, ETTA BELLE ( <i>Latin</i> )	New York City
*FREAR, IRENE LOUISE ( <i>Latin</i> )	Rochester, N. Y.
FRIED, HENRY BENJAMIN ( <i>German</i> )	New York City
FURST, MARY LOUISE (Mrs.) ( <i>Household Arts</i> )	New York City
GAGE, LOUISE ROCKWELL ( <i>Household Arts</i> )	Saginaw, Mich.
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GARDINER, CARA LESLIE ( <i>Household Arts</i> )	New York City
GELVIN, MARY LEEIDA ( <i>Household Arts</i> )	Meadville, Pa.
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GILMAN, HELEN CLARE ( <i>Physical Science</i> )	Mondoir, Wis.
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GRANT, FOREST ( <i>Fine Arts</i> )	East Orange, N. J.
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GREENFIELD, SOL ( <i>Fine Arts</i> )	New York City
GREENWOOD, DOROTHY ( <i>Household Arts</i> )	Passaic, N. J.
GREGORY, FRANCES MAY ( <i>Household Arts</i> )	New York City
*GRENELLE, MIRIAM BATHSHEBA ( <i>Mathematics</i> )	Haworth, N. J.
GRIFFITH, LILLIAN GAITHER ( <i>French</i> )	Columbus, Ga.
GYGER, JOHN THOMAS ( <i>Mathematics</i> )	Kimberton, Pa.
HANRAHAN, FRANK VINCENT ( <i>Latin</i> )	Brooklyn, N. Y.
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HULL, MARY REDFIELD ( <i>Primary Teaching</i> )	Durham, Conn.
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LANE, EMMA ( <i>History</i> )	Altosna, Ia.
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LEO, JULIETTE ( <i>English</i> )	Buffalo, N. Y.
LEONARD, CAROLINE WILTSE ( <i>History</i> )	Bayonne, N. J.
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LONG, RAYMOND VICTOR ( <i>Industrial Arts</i> )	Hagerstown, Md.
LURIA, MAX AARON ( <i>French</i> )	Brooklyn, N. Y.
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**MCCLURE, ELLA GREENE	Marietta, Ohio
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MCLAURY, HARRIET E. HOFFMAN ( <i>Elementary Education</i> )	Deposit, N. Y.
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*MATZNER, PAULA AUGUSTA ( <i>Physical Education</i> )	New York City
MAXWELL, ALMA BALDWIN ( <i>English</i> )	Charlotte, N. C.
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MEYER, HELEN ( <i>Elementary Education</i> )	Yonkers, N. Y.
*MILLER, JOSEPHINE	Pottstown, Pa.
*MILLER, MARY CLARA	Pottstown, Pa.
MILLER, MILDRED MAYES ( <i>Kindergarten Supervision</i> )	Summer, Mo.
MILLER, WILLIAM DATES ( <i>Industrial Arts</i> )	Mt. Pleasant, Mich.
MOFFETT, MARY LEDGER ( <i>Household Arts</i> )	Herndon, Va.
MONTGOMERY, EDITH ELIZABETH ( <i>Physical Education</i> )	Yonkers, N. Y.
*MOORE, CÄCILIE MARIE GEORGY	New York City
MOSS, BERTHA CHESBROUGH ( <i>Elementary Supervision</i> )	Elmira, N. Y.
MUEHLECK, LUCY ELIZABETH ( <i>German</i> )	Hoboken, N. J.
*MUMFORD, AMELIA ROBINSON ( <i>English</i> )	Saratoga Springs, N. Y.
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O'MALLEY, QUEEN ( <i>History</i> )	Wilkes-Barre, Pa.
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ROWE, LUCY JANE ( <i>Household Arts</i> ).....	Chicago, Ill.
ROY, MARION SNOWDON ( <i>Household Arts</i> ).....	Irvington-on Hudson, N. Y.
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THOMAS, ELEANOR WALTER ( <i>English</i> ).....	Columbia, S. C.
TIGHT, MINNIE GUY ( <i>Household Arts</i> ).....	Granville, Ohio
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DEYO, CHARLOTTE MABEL ( <i>Elementary Education</i> ).....	Rochester, N. Y.
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DOBBS, ADALENE ( <i>Elementary Education</i> ).....	Athens, Ga.
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KESSEL, THERESE ( <i>Fine Arts</i> ).....	Brooklyn, N. Y.
KIEFFER, NORA AMELIA ( <i>Mathematics</i> ).....	Millersburg, Pa.
KIRWAN, JOHN JOSEPH ( <i>Industrial Arts</i> ).....	Oswego, N. Y.
KOEHER, HENRY ADELBERT ( <i>Elementary Education</i> ).....	Port Chester, N. Y.
KURZ, PEARL W. (MRS.) ( <i>Household Arts</i> ).....	Cleveland, Ohio
LANDRETH, MARY ELIZA ( <i>Household Arts</i> ).....	Schenectady, N. Y.
LARSON, BIRDIE SOPHIA ( <i>Physical Education</i> ).....	Mora, Minn.
LASELL, HAROLD SMITH ( <i>Mathematics</i> ).....	Plattsburg, N. Y.
LATHAM, ELIZABETH BELL ( <i>Fine Arts</i> ).....	Brooklyn, N. Y.
LAUTERBACH, BETTIE ( <i>German</i> ).....	Breslau, Germany
LAW, CONSTANCE ELEANOR ( <i>Fine Arts</i> ).....	Mt. Vernon, N. Y.
LEDLEY, CHARLES WILSON ( <i>Industrial Arts</i> ).....	Brooklyn, N. Y.
LEWIS, EFFIE LOUISE ( <i>English</i> ).....	Brooklyn, N. Y.
LEWIS, ELLEN JONES ( <i>English</i> ).....	Catasauqua, Pa.
LIEBSCHUTZ, LIONEL F. ( <i>Physical Science</i> ).....	Newark, N. J.
LIGHT, MILO ( <i>Physical Science</i> ).....	Annaville, Pa.
LISLE, HELEN LOUISE ( <i>Elementary Education</i> ).....	West Newton, Mass.
LITTLE, CARRIE ( <i>Household Arts</i> ).....	Paterson, N. J.
LONG, FLORENCE E. ( <i>Household Arts</i> ).....	Flemington, Pa.
LONGNECKER, MARY LYLE ( <i>Music</i> ).....	Pendleton, Ind.
LOUGHRAN, KATHARINE ANN ( <i>Mathematics</i> ).....	New York City
LUNDÉLL, EMMA AURORE ( <i>French</i> ).....	Poughkeepsie, N. Y.
LYLE, ANNA ELIZABETH ( <i>English</i> ).....	New York City
LYMAN, FLORENCE ( <i>Physical Education</i> ).....	Augusta, Me.
LYNCH, LESLIE OTIS ( <i>Elementary Education</i> ).....	White Plains, N. Y.
MCANDREW, WILLIAM IGNATIUS ( <i>Mathematics</i> ).....	Rahway, N. J.
MACCLYMONDS, JESSIE ( <i>Elementary Education</i> ).....	Darlington, Pa.
MCLESTER, FRANCES COLE ( <i>English</i> ).....	Nashville, Tenn.
MACMILLAN, ETHEL ( <i>Household Arts</i> ).....	Rockford, Mich.
MACKAY, ISABEL ( <i>English</i> ).....	Addison, N. Y.
MANN, CLARA FITZGERALD ( <i>History</i> ).....	Groveland, N. Y.

MANN, ELIZABETH ( <i>Household Administration</i> ).....	Brooklyn, N. Y.
MARA, DOROTHY ( <i>Elementary Supervision</i> ).....	New York City
MARSH, FLORENCE ANNIE ( <i>Music</i> ).....	Kalamazoo, Mich.
MATHES, FANNIE PENDEXTER ( <i>English</i> ).....	Dover, N. H.
MEAD, MARY ELIZABETH ( <i>Household Arts</i> ).....	Cranesville, N. Y.
MERRIMAN, WILLIAM HARRIS ( <i>Industrial Arts</i> ).....	Elba, N. Y.
MILLER, MABEL IDA ( <i>Household Arts</i> ).....	Bloomville, N. Y.
MOORE, ANNA ELIZABETH ( <i>English</i> ).....	Dover, N. J.
MOORE, PRESLEY FLOYD ( <i>Industrial Arts</i> ).....	Hanford, Calif.
MORRILL, ALICE MARY ( <i>Household Arts</i> ).....	Passaic, N. J.
MORRIS, ALEXANDER ( <i>Industrial Arts</i> ).....	New York City
MORRISSEY, SARAH JANE ( <i>Elementary Supervision</i> ).....	Rush Lake, Wis.
MORROW, ALBERT THOMAS ( <i>Mathematics</i> ).....	Brooklyn, N. Y.
MORSE, GRACE ESTHER ( <i>Fine Arts</i> ).....	New York City
MULQUEEN, MARGARET STANISLAUS ( <i>Elementary Education</i> ).....	New York City
MULQUEEN, MARIE AGNES ( <i>Elementary Education</i> ).....	New York City
MUMFORD, ANNE MEDAY ( <i>Fine Arts</i> ).....	Pasadena, Calif.
MUNRO, SIBYL HELEN ( <i>Elementary Supervision</i> ).....	Auburn, N. Y.
MURPHY, MARJORIE ( <i>Fine Arts</i> ).....	Brooklyn, N. Y.
NEIDY, CARRIE L. ( <i>Fine Arts</i> ).....	Waterloo, Ia.
NORTHROP, ELIZABETH ( <i>Geography</i> ).....	Redlands, Calif.
NOYES, MAY HEATH ( <i>Kindergarten Supervision</i> ).....	Brookline, Mass.
O'BRIEN, MARGARET ( <i>History</i> ).....	New York City
O'NEAL, LILA MORRIS ( <i>Household Arts</i> ).....	San José, Calif.
OSBORN, ELEANOR ( <i>Elementary Supervision</i> ).....	Mankato, Minn.
OSGOOD, MABEL MARION ( <i>Kindergarten Supervision</i> ).....	Oak Park, Ill.
OSMOND, EDITH GRIFFITH ( <i>Physical Education</i> ).....	Los Angeles, Calif.
OSTROM, FANNIE BELL ( <i>Fine Arts</i> ).....	Savannah, Ga.
**PALMER, LEONARD LESTER.....	New York City
PATRICK, MARY MAUD ( <i>English</i> ).....	New York City
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PENDLETON, WERTHA ( <i>History</i> ).....	Bryn Athyn, Pa.
PERRY, MARY ALMEDA ( <i>Household Arts</i> ).....	Vernal, Utah
PETERKIN, JAMES TROY ( <i>Fine Arts</i> ).....	Dillon, S. C.
PETERS, ANNA A. ( <i>Household Arts</i> ).....	Allentown, Pa.
**PHILLIPS, CAROLINE DOROTHEA.....	Crawford, N. J.
PICKERING, DOROTHY DREDELL ( <i>Household Arts</i> ).....	Elmira, N. Y.
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PORTLOCK, KINETA DE FRANCE ( <i>Household Arts</i> ).....	New London, Ia.
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PURDUE, OLIVE CONDIT ( <i>Household Arts</i> ).....	East Orange, N. J.
PURVIS, SUSIE EASTIN ( <i>English</i> ).....	Pulaski, Va.
RANDALL, IVY ( <i>Household Arts</i> ).....	Whittier, Calif.
RAVEN, MAYBELLE ( <i>Household Arts</i> ).....	Bay Shore, N. Y.
REGER, RICHARD OPIE ( <i>Industrial Arts</i> ).....	Clifton, N. J.
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RITTER, HARRY ( <i>Mathematics</i> ).....	Brooklyn, N. Y.
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ROBINSON, ETHEL MARIA ( <i>Kindergarten Supervision</i> ).....	Orange, N. J.
RODGERS, ROBERT HENRY ( <i>Industrial Arts</i> ).....	Corvallis, Ore.
ROSENDOFF, MODESTA FLORENCE ( <i>German</i> ).....	Corvallis, Ore.
ROSENTHAL, DORIS PATTY ( <i>Fine Arts</i> ).....	Los Angeles, Calif.
RUDDOCK, CAROLINE MAY ( <i>Music</i> ).....	Oshkosh, Wis.
RUTLEDGE, KATHERINE STANTON ( <i>Household Arts</i> ).....	Fort Dodge, Ia.

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SANDERCOCK, HELEN DOROTHEA ( <i>Household Arts</i> ).....	Ariel, Pa.
SARAFIAN, KEVORK AVEDIS ( <i>French</i> ).....	New York City
SAUNDERS, MARIE H. ( <i>Mathematics</i> ).....	Jersey City, N. J.
SAYERS, JESSIE ALLISON ( <i>Mathematics</i> ).....	San Marco, Tex.
SAYLES, CLARA MARIE ( <i>Household Arts</i> ).....	Flint, Mich.
SCARBOROUGH, PAUL CLAYPOOLE ( <i>Elementary Supervision</i> ).....	Demarest, N. J.
SCHNEIDER, ELIZABETH TEUTONIA ( <i>Elementary Education</i> ).....	Hoboken, N. J.
SCHOONOVER, KATHARINE ( <i>Household Arts</i> ).....	Matteawan, N. Y.
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SHARRARD, KATE ( <i>Elementary Education</i> ).....	Omaha, Neb.
SHAVER, CLARE ( <i>Fine Arts</i> ).....	Duluth, Minn.
SHUSS, LETITIA ( <i>German</i> ).....	Everett, Pa.
SMEATON, EDNA MARIAN ( <i>Household Arts</i> ).....	Mt. Vernon, N. Y.
SMEETON, MARY ALICE ( <i>Nursing and Health</i> ).....	Brooklyn, N. Y.
SMITH, FRED JOSEPH ( <i>Industrial Arts</i> ).....	Oswego, N. Y.
SMITH, HELEN ELIZA ( <i>Household Arts</i> ).....	Fargo, N. D.
SMITH, ISABEL ( <i>Elementary Education</i> ).....	Mt. Carmel, Pa.
SMITH, PATSY HARRY ( <i>English</i> ).....	Raleigh, N. C.
**SOLENDER, SAMUEL SOLOMON.....	Pleasantville, N. Y.
SPAULDING, MARION ( <i>Household Arts</i> ).....	South Hingham, Mass.
SPERLING, HARRY ( <i>Physical Education</i> ).....	Brooklyn, N. Y.
SPIEGEL, DORA ROSENBERG ( <i>English</i> ).....	New York City
STETLER, RUTH ELEANOR ( <i>Kindergarten</i> ).....	New York City
STROHOEFER, FRANCIS KILIAN ( <i>Industrial Arts</i> ).....	Bayonne, N. J.
STRONG, ANNA COWAN ( <i>Kindergarten</i> ).....	Raleigh, N. C.
SWEET, MARGARET ( <i>Household Arts</i> ).....	Yonkers, N. Y.
TALADA, MABEL ( <i>Industrial Arts</i> ).....	Rhinebeck, N. Y.
TALIAFERRO, CARRIE BROWN ( <i>Mathematics</i> ).....	Orange, Va.
TAYLOR, DOROTHY ( <i>Fine Arts</i> ).....	New York City
TAYLOR, ETHEL ELIZABETH ( <i>Household Arts</i> ).....	New York City
TAYLOR, JOHN LLOYD ( <i>Industrial Arts</i> ).....	Horseheads, N. Y.
THIAKOS, DENNIS MITCHELL ( <i>History</i> ).....	Chephalonia Argostoli, Greece
THOMAS, MARY DANN ( <i>Household Arts</i> ).....	Lima, Ohio
THOMPSON, NATALIE ( <i>Fine Arts</i> ).....	Union Course, N. Y.
TISDALE, CLARA L. ( <i>Household Arts</i> ).....	La Crosse, Wis.
TOAZ, CHARLOTTE ERMA ( <i>Biology</i> ).....	Rochester, N. Y.
TRILLING, MABEL BARBARA ( <i>Household Arts</i> ).....	Clarksville, Tex.
TROST, HERMIE FRANCES ( <i>Elementary Education</i> ).....	New York City
TUCKER, MARION LA VERNE ( <i>Household Arts</i> ).....	Monson, Mass.
TURNER, EULA PEARL ( <i>Household Arts</i> ).....	Dallas, Tex.
UPTON, ANNE HALE ( <i>Fine Arts</i> ).....	Stoneham, Mass.
UPTON, HELEN FOSTER ( <i>Fine Arts</i> ).....	Bridgeport, Conn.
**VAIL, EDNA.....	Hamden, N. Y.
VAN HOESEN, MAELE C. ( <i>History</i> ).....	New York City
VAN TASSEL, HARRIET LOUISE ( <i>Household Arts</i> ).....	Geneva, N. Y.
VAN VLIET, ANITA ESTELLE ( <i>English</i> ).....	East Stroudsburg, Pa.
VAN VORT, RAY VIRGINIA ( <i>English</i> ).....	Richmond, Va.
**WALKER, LULA VIRGINIA.....	Baltimore, Md.
WALTHER, THEDA H. ( <i>Fine Arts</i> ).....	New York City
WEBER, EDITH ( <i>Household Arts</i> ).....	Glenarm, Ill.
WEBSTER, SARAH EMELINE ( <i>Fine Arts</i> ).....	New York City
WECHSLER, PHILIP ( <i>English</i> ).....	New York City
WEED, BERTHA ELAINE ( <i>Mathematics</i> ).....	Wolcott, N. Y.

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WEINSTEIN, ABRAHAM ( <i>Industrial Arts</i> ).....	New York City
WEINSTEIN, JEANNETTE DOROTHY ( <i>Biology</i> ).....	New York City
WEST, SUSAN FREEMAN ( <i>Household Arts</i> ).....	New York City
WESTERVELT, ALICE EDDY ( <i>Kindergarten Supervision</i> ).....	New York City
WEYMOUTH, MAUD MELISSA ( <i>Household Arts</i> ).....	Pasadena, Calif.
WHITE, LILLIAN ( <i>Elementary Education</i> ).....	Brooklyn, N. Y.
WHITEHILL, MAY ( <i>Physical Education</i> ).....	Jersey City, N. J.
WHITNEY, LOUISE AMMERMAN ( <i>Elementary Education</i> ).....	Dubuque, La.
WHITNEY, LURA IRENE ( <i>Kindergarten Supervision</i> ).....	Toledo, Ohio
WHITTAKER, ELIZABETH MARY (MRS.) ( <i>Household Arts</i> ).....	Fort Covington, N. J.
WIENER, THEODORA M. ( <i>Household Arts</i> ).....	Newark, N. J.
WILHITE, BLANCHE SHELTON ( <i>Fine Arts</i> ).....	Montclair, N. J.
WILLIAMS, ADA HUME ( <i>Latin</i> ).....	Washington, D. C.
WILLYOUNG, MILDRED MORRIS ( <i>Household Arts</i> ).....	Mt. Vernon, N. Y.
WOLFSON, DOR THY LEONORE ( <i>Fine Arts</i> ).....	New York City
WOODLEY, HELEN JANE ( <i>Elementary Education</i> ).....	Evanston, Ill.
WRIGHT, CATHERINE DELAFIELD ( <i>Elementary Education</i> ).....	New York City
**YUNCK, BERNADINE MEYER.....	South Orange, N. J.

### Candidates for Special Diploma

#### SECOND YEAR

ADAMS, MARIAN KYLE ( <i>Physical Education</i> ).....	Webster Groves, Mo.
ADLER, RUTH ( <i>Kindergarten</i> ).....	New York City
ALLEN, JOSEPHINE ( <i>Household Arts</i> ).....	Passaic, N. J.
ARGETSINGER, LEON JOHN ( <i>Elementary Supervision</i> ).....	Matteawan, N. Y.
ARNOLD, HELEN HUNT ( <i>Fine Arts</i> ).....	Dayton, Ohio
BABCOCK, EDITH FLORENCE ( <i>Fine Arts</i> ).....	Sound Beach, Conn.
BALL, DOROTHY WASHBURN ( <i>Household Arts</i> ).....	East Orange, N. J.
BALLOU, MILDRED ( <i>Kindergarten</i> ).....	New York City
BELL, JESSIE LILLIAN (MRS.) ( <i>Fine Arts</i> ).....	Seattle, Wash.
BEVAN, ALICE ELIZABETH ( <i>Fine Arts</i> ).....	Port Chester, N. Y.
BEYER, LILLIAN FRIEDA ( <i>Household Arts</i> ).....	New York City
BIRKHOLZ, BEATRICE ( <i>Household Arts</i> ).....	Orange, N. J.
BOAS, BELLE ( <i>Fine Arts</i> ).....	Providence, R. I.
BROWN, KATHERINE ( <i>Fine Arts</i> ).....	Indianapolis, Ind.
BROWN, MINERVA RUTH ( <i>Kindergarten</i> ).....	Irvington, N. J.
BUCHANAN, MILDRED CLAIBORNE ( <i>Fine Arts</i> ).....	Louisville, Ky.
BURKE, AMIE FRANCES ( <i>Household Arts</i> ).....	Cleveland, Ohio
BURKHART, STELLA ( <i>Household Arts</i> ).....	Kansas City, Kans.
BUSCHMANN, ALMA DOROTHEA ( <i>Household Arts</i> ).....	Indianapolis, Ind.
CAMPBELL, VINCENT ALOYSIUS ( <i>Industrial Arts</i> ).....	Brooklyn, N. Y.
CHAMBERLAIN, NINA LENITA ( <i>Household Arts</i> ).....	Sparkill, N. Y.
CLARK, MARY HOWARTH ( <i>Elementary Education</i> ).....	Westfield, N. J.
COFFER, SADIE CATHARINE ( <i>Household Arts</i> ).....	Washington, D. C.
COLE, MARION ( <i>Household Arts</i> ).....	Cambridge, Mass.
COLLINGWOOD, EMILIE ( <i>Household Arts</i> ).....	Holyoke, Mass.
CONDON, JEANNETTE ( <i>Physical Education</i> ).....	New York City
CONDON, KATHLEEN FRANCES ( <i>Fine Arts</i> ).....	New York City
COOKE, MARGARET MONTAGUE ( <i>Music</i> ).....	Honolulu, T. H.
CORRELL, ETHEL H. ( <i>Kindergarten</i> ).....	Akita, Japan
CORWIN, FLORENCE MARIE ( <i>Household Arts</i> ).....	East Cleveland, Ohio
COUSLEY, ETHEL TOWNSEND (MRS.) ( <i>Household Arts</i> ).....	Bolivar, Mo.

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CUMMINS, MAY FRANCES ( <i>Household Arts</i> ).....	New York City
DEMAREST, BESSIE ( <i>Household Arts</i> ).....	Spring Valley, N. Y.
DEMAREST, THEODORA FRELINGHUYSEN ( <i>Fine Arts</i> ).....	Passaic, N. J.
DEUTSCH, ETHEL JOHANNA ( <i>Household Arts</i> ).....	New York City
DONNOCKER, DELLA ( <i>Household Arts</i> ).....	Northport, N. Y.
DOTY, GLADYS ( <i>Household Arts</i> ).....	Wyoming, N. J.
DUNN, HELEN ADELIA ( <i>Household Arts</i> ).....	Passaic, N. J.
EATON, GERTRUDE FRANCES ( <i>Elementary Supervision</i> ).....	Duluth, Minn.
EILBECK, FRANCES ( <i>Household Arts</i> ).....	New Castle, Ontario, Can.
FARRELL, THERESE MARGARET ( <i>Household Arts</i> ).....	New York City
FENNELLY, ELEANOR ( <i>Household Arts</i> ).....	Derby, Conn.
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FORBES, INA BELLE ( <i>Household Arts</i> ).....	Northampton, Mass.
FORBES, RUTH CARVER ( <i>Primary Supervision</i> ).....	Torrington, Conn.
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GIBBONS, MARTHA ELEANOR ( <i>Fine Arts</i> ).....	Hudson Falls, N. Y.
GLEASON, DOROTHY STEARNS ( <i>Physical Education</i> ).....	Brooklyn, N. Y.
GODDARD, NAOMI ( <i>Household Arts</i> ).....	Kingston, N. Y.
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JOHNSON, RUTH ALLYNE ( <i>Household Arts</i> ).....	St. Paul, Minn.
JOHNSTON, HELEN ( <i>Household Arts</i> ).....	Montclair, N. J.
JONAS, ESTHER HEINE ( <i>Household Arts</i> ).....	Baltimore, Md.
JONES, HELEN FLANAGAN WEBB ( <i>Physical Education</i> ).....	Philadelphia, Pa.
JONES, MARY EDITH ( <i>P. imary Supervision</i> ).....	Kalamazoo, Mich.
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LYNCH, KATHERINE CECELIA ( <i>Household Arts</i> ).....	Naugatuck, Conn.
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RHODES, LILY BELL ( <i>Fine Arts</i> ).....	Bergerville, Quebec, Can.
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SCHOENFELD, ALVINA MARIE ( <i>Household Arts</i> ).....	New York City
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SMAR, THÉRÈSE EVA ( <i>Household Arts</i> ).....	New York City
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SUTTON, CLARA NETTIE ( <i>Household Arts</i> ).....	Bloomfield, N. J.
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TOWNSEND, EDITH WILDER ( <i>Kindergarten</i> ).....	New York City
TRACY, HELEN RUTH ( <i>Physical Education</i> ).....	Shelburne, Vt.
UPTON, ESTHER LORENA ( <i>Household Arts</i> ).....	Flint, Mich.
VANSTRUM, JESSIE ISABEL ( <i>Household Arts</i> ).....	Minneapolis, Minn.
VINE, EDITH CHESBRO ( <i>Household Arts</i> ).....	New York City
WARNER, SUSAN EDESSA ( <i>Household Arts</i> ).....	Farmington, Mich.
WARREN, SUSAN FLORENCE ( <i>Physical Education</i> ).....	Eastford, Conn.
WELLWOOD, BEATRICE ELIZABETH ( <i>Household Arts</i> ).....	New York City
WENDOVER, CHARLOTTE MARION ( <i>Household Arts</i> ).....	Tenafly, N. J.
WERTS, MARY EVELYN ( <i>Household Arts</i> ).....	Jersey City, N. J.
WHITCOMB, EDITH MABEL ( <i>Primary Supervision</i> ).....	Grand Rapids, Mich.
WHITE, GLADYS MACCLEERIE ( <i>Household Arts</i> ).....	South Glen Falls, N. Y.
WHITEFORD, MARGARET (MRS.) ( <i>Household Arts</i> ).....	New York City
WOOLEY, MARIE ROBERTA ( <i>Kindergarten</i> ).....	Philadelphia, Pa.
YOUNG, MARY MCKEEN ( <i>Household Arts</i> ).....	Easton, Pa.

## FIRST YEAR

BEAKES, DOROTHY EMELINE ( <i>Household Arts</i> ).....	New York City
BEISWANGER, ESTHER NAOMI ( <i>Household Arts</i> ).....	New York City
BENNETT, MILDRED ( <i>Household Arts</i> ).....	Brooklyn, N. Y.
BICKNELL, ANNA ( <i>Household Arts</i> ).....	Malone, N. Y.
BLAKE, MARION MORSE ( <i>Household Arts</i> ).....	Hoosick Falls, N. Y.
BRAUS, RAY NEWLAND ( <i>Household Arts</i> ).....	New York City
BROOKS, RUTH ( <i>Physical Education</i> ).....	New York City
CARPENTER, LAURA ELIZABETH ( <i>Elementary Education</i> ).....	New York City
CLINTON, LUCILE WARNER ( <i>Physical Education</i> ).....	New York City
DE BROWN, RITA ( <i>Household Arts</i> ).....	Cleveland, Ohio
DESMOND, FLORENCE ( <i>Fine Arts</i> ).....	Oradell, N. J.
DEYSHER, ETHEL ( <i>Kindergarten</i> ).....	Reading, Pa.
EDSALL, MARIAN WELLING ( <i>Household Arts</i> ).....	Warwick, N. Y.

EVANS, ISABEL LOUNT ( <i>Nursing and Health</i> ).....	Niagara-on-the-Lake, Canada
FAIRFIELD, MARGARET ( <i>Household Arts</i> ).....	East Orange, N. J.
FRANK, ENID HENRIETTE ( <i>Kindergarten</i> ).....	New York City
FRANK, ROSE ( <i>Fine Arts</i> ).....	New York City
GREENHALGH, LUCY ROBERTSON ( <i>Household Arts</i> ).....	Yonkers, N. Y.
GROES, ABRAHAM NATHANIEL ( <i>Music</i> ).....	New York City
HENDRICKSON, LOUISE VAN VLIET ( <i>Music</i> ).....	Lawrenceville, N. J.
HICKEY, MARGARET ( <i>Nursing and Health</i> ).....	New York City
HOPE, DOROTHY MARION ( <i>Household Arts</i> ).....	Madison, N. J.
HOWES, RUTH CAROLYN ( <i>Household Arts</i> ).....	Florence, Mass.
HUSING, MABEL ADELINE ( <i>Household Arts</i> ).....	Brooklyn, N. Y.
HUSSAKOF, EVA ( <i>Physical Education</i> ).....	New York City
JACKSON, LUCILE ( <i>Household Arts</i> ).....	West Summit, N. J.
JACOBSEN, HELEN AMALIE ( <i>Elementary Education</i> ).....	West Hoboken, N. J.
KAPLAN, FRANCES ( <i>Fine Arts</i> ).....	New York City
KLING, DELIA CHRISTINE ( <i>Kindergarten Supervision</i> ).....	Brooklyn, N. Y.
MCCORMICK, MARY ELEANOR (MRS.) ( <i>House Decoration</i> ).....	Watertown, N. Y.
MARTIN, KATHLEEN ISABEL ( <i>Household Arts</i> ).....	Perth Amboy, N. J.
MATHEWS, MARY ESTELLE ( <i>Elementary Education</i> ).....	New York City
MUNRO, MARGARET ( <i>Household Arts</i> ).....	Bayonne, N. J.
NORTON, ANNA EVALYN ( <i>House Decoration</i> ).....	Middletown, N. Y.
OESTERMEYER, LYDIA ( <i>Household Arts</i> ).....	Cleveland, Ohio
PETERS, RUTH ( <i>Fine Arts</i> ).....	New York City
PIERCE, ELIZABETH CLARK ( <i>Household Arts</i> ).....	Cranford, N. J.
PROAL, RUTH HARRIS ( <i>Kindergarten</i> ).....	Nutley, N. J.
REED, GRACE PERKINS ( <i>Household Arts</i> ).....	Brooklyn, N. Y.
RODGERS, CAROLYN ISABELLE ( <i>Elementary Education</i> ).....	New York City
ROOT, EMMA KENT ( <i>Fine Arts</i> ).....	Brooklyn, N. Y.
SELDEN, ELIZABETH ( <i>Nursing and Health</i> ).....	New York City
SHERMAN, HANNAH ( <i>Household Arts</i> ).....	Yonkers, N. Y.
SIEGEL, FRED ( <i>Industrial Arts</i> ).....	Tottenville, N. Y.
SMITH, ELIZABETH FLORA ( <i>Fine Arts</i> ).....	Havana, Cuba
SMITH, LA-U-NA E. ( <i>Household Arts</i> ).....	Louisville, Ky.
SMITH, MATHILDA CECILIA ( <i>Household Arts</i> ).....	New York City
SONN, IONE MARGUERITE ( <i>Household Arts</i> ).....	Jersey City, N. J.
STEWART, MYRA GIFFIN ( <i>Industrial Arts</i> ).....	New York City
STORER, HELEN MAY ( <i>Industrial Arts</i> ).....	Susquehanna, Pa.
SULLIVAN, CLARA WOODRUFF ( <i>Physical Education</i> ).....	New York City
TAYLOR, MARGARET ELIZABETH ( <i>Elementary Education</i> ).....	Ocala, Fla.
TAYLOR, MARY ANNA ( <i>Household Arts</i> ).....	New York City
THURSTON, FLORA MARTHA ( <i>Household Arts</i> ).....	Toledo, Ohio
VIERLING, MARGARET ( <i>Household Arts</i> ).....	Princeton, Ind.
WAHLQUIST, HJALMAR ( <i>Fine Arts</i> ).....	Philadelphia, Pa.
WAY, EDNA MARTHA ( <i>Fine Arts</i> ).....	Manchester, Vt.
WILLIAMSON, LOTTIE JOSEPHINE ( <i>Household Arts</i> ).....	Saginaw, Mich.
WILSON, ELIZABETH TOWNE ( <i>Household Arts</i> ).....	East Orange, N. J.

## Candidates for Departmental Certificate

## SECOND YEAR

ALLEN, BERTHA WINNIFRED ( <i>Nursing and Health</i> ).....	Sedgwick, Me.
EBERLE, DOVIE VALERIA ( <i>Household Arts</i> ).....	Skedee, Okla.
HARRISS, OLIVE BERTA ( <i>Household Arts</i> ).....	Augusta, Ga.
HENK, ROBERT LEEDON ( <i>Industrial Arts</i> ).....	Caldwell, N. J.

INGERSOLL, MARY GODIVA ( <i>Household Arts</i> ).....	Delta, Colo.
LEGATE, FLORENCE ANNE ( <i>Household Arts</i> ).....	Paterson, N. J.
LEVY, DAVID MORDECAI ( <i>Music</i> ).....	New York City
MCCHESENEY, ETTA ( <i>Household Arts</i> ).....	New York City
MCGUIRE, GRACE ADELLE ( <i>Household Arts</i> ).....	Pueblo, Colo.
MEACHAM, LUCY HELEN ( <i>Elementary Supervision</i> ).....	Washington, Ia.
MOORE, FLORA LEONE ( <i>Primary Supervision</i> ).....	Kalamazoo, Mich.
MOOREHEAD, HELEN LOUISE ( <i>Household Arts</i> ).....	Ida Grove, Ia.
PUTZEL, CATHARINE ( <i>Kindergarten Supervision</i> ).....	Savannah, Ga.
SKINNER, ALICE E. ( <i>Household Arts</i> ).....	North Topeka, Kans.
SPOHR, WILHELMINA ( <i>Household Arts</i> ).....	Manhattan, Kans.
TRIMMER, CARMEN A. ( <i>Fine Arts</i> ).....	Harrisburg, Pa.
WOODMAN, EMMA ( <i>Industrial Arts</i> ).....	Paw Paw, Mich.

## FIRST YEAR

ALLEN, ELSIE MARGUERITE ( <i>Household Arts</i> ).....	Mt. Vernon, N. Y.
ALLISON, AMY ( <i>Nursing and Health</i> ).....	St. Thomas, Ont., Can.
ARMSTRONG, IRMA BELLE ( <i>Primary Supervision</i> ).....	River Falls, Wis.
AVERY, BERTHA CLAIRE ( <i>Household Arts</i> ).....	Minneapolis, Minn.
BARD, HENRIETTA ONDERDONK ( <i>Elementary Education</i> ).....	Pleasantville, N. Y.
BARTHOLOMEW, REBECCA PAULINE ( <i>Household Arts</i> ).....	Valparaiso, Ind.
BATTCOCK, GREGORY JOSEPH ( <i>Industrial Arts</i> ).....	Yonkers, N. Y.
BEVERIDGE, AGNES ( <i>Household Arts</i> ).....	Mt. Vernon, N. Y.
BICKEL, BLANCHE ESTELLA ( <i>Household Arts</i> ).....	Harrisburg, Pa.
BIGELOW, GERTRUDE I. ( <i>Primary Supervision</i> ).....	Norwood, Mass.
BIGGART, JULIA ROSSIER ( <i>Household Arts</i> ).....	Bloomfield, N. J.
BIRKETT, LAURA CHARLOTTE ( <i>Physical Education</i> ).....	New York City
BOTTÉ, JOHN RICHARD ( <i>Elementary Supervision</i> ).....	Bayonne, N. J.
BOYD, JENNIE SELFRIE ( <i>Household Arts</i> ).....	Montvale, N. J.
BOYLAN, MARGARET MANORA ( <i>Music</i> ).....	Hubbard, Iowa
BUMBAUGH, ETHEL IRENE ( <i>Household Arts</i> ).....	Santa Rosa, Calif.
CAMPIGLIA, SYLVIA FRANCES ( <i>Household Arts</i> ).....	San José, Calif.
CARLING, FLORENCE EVELYN ( <i>Nursing and Health</i> ).....	Exeter, Ontario, Can.
CASTLEBERRY, ANNA ( <i>Household Arts</i> ).....	McCune, Kans.
CHACE, EDITH PITT ( <i>Household Arts</i> ).....	North East, Pa.
CHURCH, RUTH COLQUITT ( <i>Household Arts</i> ).....	Cleveland, Ohio
CLARK, ALICE EDITH ( <i>Household Arts</i> ).....	River Falls, Wis.
CLARK, GEORGIA ( <i>Household Arts</i> ).....	Eldred, N. Y.
CLARK, JOSEPHINE B. ( <i>Nursing and Health</i> ).....	Philadelphia, Pa.
COEN, VIOLET STANLEY ( <i>Industrial Arts</i> ).....	New York City
COLEMAN, CONSTANCE LAMB ( <i>Kindergarten</i> ).....	Mt. Vernon, N. Y.
CRAWFORD, GRACE ( <i>Nursing and Health</i> ).....	Marion, Ia.
CRENSHAW, IONE ( <i>Fine Arts</i> ).....	San Diego, Calif.
DICKEY, M. RUTH ( <i>Household Arts</i> ).....	Pasadena, Calif.
DILLINGHAM, CHARLOTTE RIPLEY ( <i>Physical Education</i> ).....	Charleston, S. C.
DODGE, OLIVE JULIETTE ( <i>Elementary Education</i> ).....	Nashua, N. H.
DONNAN, DOROTHEA WORTHINGTON ( <i>Household Arts</i> ).....	Florida, N. Y.
ERSKINE, CORNELI DOUGLAS ( <i>Nursing and Health</i> ).....	Clarendon, Pa.
FABER, MARY ARMITAGE ( <i>Household Arts</i> ).....	Plainfield, N. J.
FICKEL, GERTRUDE GRETCHEN ( <i>Music</i> ).....	Stockport, Iowa
FINLAYSON, JEAN GILKINSON ( <i>Fine Arts</i> ).....	Rockville Centre, N. Y.
FRENCH, LAURA HARRIET ( <i>Household Arts</i> ).....	Malone, N. Y.
GERSTLE, CARRIE ( <i>Household Arts</i> ).....	New York City
GIVEN, ALTA ( <i>Household Arts</i> ).....	Dumont, N. J.



GOODE, NANCY ( <i>Household Arts</i> )	Skipwith, Va.
GRAEFF, MABEL EARLE ( <i>Household Arts</i> )	Hoboken, N. J.
GREENE, MARIE HOLT ( <i>Music</i> )	New York City
GRIEVES, DOROTHY ( <i>Household Arts</i> )	New York City
HARPER, EDNA MAY ( <i>Household Arts</i> )	Brooklyn, N. Y.
HARRIS, BETSEY (MRS.) ( <i>Nursing and Health</i> )	Brooklyn, N. Y.
HAUSNER, MINNIE MARGARET ( <i>Household Arts</i> )	Trumansburg, N. Y.
HAWKES, ANNIE HALL ( <i>Household Arts</i> )	Waseca, Minn.
HESS, ADAH HENRIETTE ( <i>Household Arts</i> )	South Bend, Ind.
HIGBID, ELIZABETH JOHNSON ( <i>Nursing and Health</i> )	Paterson, N. J.
HILLYAR, ELIZABETH ALGER ( <i>Fine Arts</i> )	New York City
HOSTETTER, MAUDE GERTRUDE ( <i>Household Arts</i> )	Millersville, Pa.
HURLBUT, CLAIRE ALMYRA ( <i>Household Arts</i> )	Oneonta, N. Y.
JAMES, FLORA ( <i>Household Arts</i> )	Yonkers, N. Y.
JAMES, MARGARET LESLIE ( <i>Music</i> )	Fort Valley, Ga.
JAMES, MARGARET SHARPLESS ( <i>Elementary Education</i> )	West Chester, Pa.
JOSLIN, HARRIETT ( <i>Household Arts</i> )	Greencastle, Ind.
KAUFMANN, MYRTLE LOUISE ( <i>Elementary Supervision</i> )	Freeport, Ill.
KELLY, EDITH (MRS.) ( <i>Nursing and Health</i> )	Nyack, N. Y.
KEMMICH, KATHERINE GRACE ( <i>Nursing and Health</i> )	Horseheads, N. Y.
KITE, JESSIE MAE ( <i>Physical Education</i> )	Springfield, Mo.
KOENIG ALMAH (MRS.) ( <i>Kindergarten</i> )	New York City
LANE, ANNA ELLEN ( <i>Household Arts</i> )	Peru, Ind.
LATHAM, ALICE MAY ( <i>Household Arts</i> )	Dublin, Tex.
LEET, HARRIET LOUISE ( <i>Nursing and Health</i> )	Cleveland, Ohio
LEVY, EDNA ( <i>Elementary Supervision</i> )	Natchitoches, La.
LOGAN, JEAN WILSON ( <i>Elementary Education</i> )	Detroit, Mich.
LYMAN, LOIS ( <i>Household Arts</i> )	Manasquan, N. J.
MACDONALD, VIOLET MAY ( <i>Nursing and Health</i> )	Hamilton, Ontario, Can.
MCGOUGH, FRANCES JOSEPHINE ( <i>Physical Education</i> )	Altoona, Pa.
MCGRAW, ELIZABETH ( <i>Industrial Arts</i> )	Richmond, Va.
MCGRAW, JEAN ( <i>Household Arts</i> )	Richmond, Va.
MCINTYRE, GRACE LENA ( <i>Nursing and Health</i> )	Crown Point, N. Y.
McKENZIE, LAURA CUSTIS ( <i>Primary Supervision</i> )	Louisville, Ky.
MANHEIM, ZIPPORAH COHEN (MRS.) ( <i>Elementary Education</i> )	New York City
MAUE, EMILIE CLEMENTINE ( <i>Fine Arts</i> )	Hazleton, Pa.
MATTES, MAX HERMAN ( <i>Music</i> )	New York City
MESTON, IVA ELEANOR ( <i>Primary Supervision</i> )	Saginaw, Mich.
MILLETTE, ALPHA ( <i>Nursing and Health</i> )	Glendale, West Va.
MILLOT, HENRIETTA ( <i>Household Arts</i> )	Oswego, N. Y.
MITCHELL, LUCILLE MORGAN ( <i>Music</i> )	Burlington, Vt.
MÜLLER, MAY KATHRYN ( <i>Household Arts</i> )	New York City
NEIDE, CARRIE L. ( <i>Fine Arts</i> )	Waterloo, Ia.
OSBORN, LAURA ( <i>Physical Education</i> )	New York City
PARKE, LA WINNA ( <i>Household Arts</i> )	Salt Lake City, Utah
PATTESON, KATHARINE ( <i>Household Arts</i> )	Tarrytown, N. Y.
PAYNE, NORA BURKS ( <i>Elementary Education</i> )	Lynchburg, Va.
PEEK, BERTHA ELIZA ( <i>Fine Arts</i> )	Yonkers, N. Y.
PHELPS, EVELYN CHRISTIE ( <i>Household Arts</i> )	Buffalo, N. Y.
PHILLIPS, ESTHER ( <i>Elementary Education</i> )	New York City
PLATT, AMY HAMILTON ( <i>Household Arts</i> )	Hazleton, Pa.
PLUMB, HELEN HOLDEN ( <i>Household Arts</i> )	Bridgeport, Conn.
ROBINSON, ELIZABETH JANET ( <i>Elementary Education</i> )	Rochester, N. Y.
RUEBSAM, EDITH ( <i>Kindergarten</i> )	Davenport, Ia.
SAVAGE, TESSIE L. ( <i>Household Arts</i> )	Berkeley, Calif.



SCHARFENSTEIN, GLADYS IRENE ( <i>Household Arts</i> ).....	Cassville, Wis.
SEDDON, KATE VENABLE ( <i>Physical Education</i> ).....	Brooklyn, N. Y.
SEXTON, BERNARD ( <i>Elementary Education</i> ).....	Greenwich, Conn.
SHIELDS, JENNIE ( <i>Household Arts</i> ).....	Malone, N. Y.
SIMPSON, CHARLOTTE AUGUSTA ( <i>Fine Arts</i> ).....	San José, Calif.
SKINNER, FRANCES BECKWITH ( <i>Household Arts</i> ).....	Washington, D. C.
SMITH, EUNICE ATKINSON ( <i>Nursing and Health</i> ).....	Newburyport, Mass.
SMITH, MABLE FISK ( <i>Household Arts</i> ).....	Hackensack, N. J.
SPRAGUE, ESTHER LOUISE ( <i>Elementary Education</i> ).....	Sauk Centre, Minn.
STANTON, EDNA MACY ( <i>Elementary Education</i> ).....	Lansdowne, Pa.
STARR, SARAH ( <i>Household Arts</i> ).....	New York City
STENQUIST, JOHN LANGDON ( <i>Industrial Arts</i> ).....	Lindsay, Calif.
STINSON, EDNA SHIRLEY ( <i>Household Arts</i> ).....	Rochester, Ind.
STODDARD, MARGARET LOUISE ( <i>Fine Arts</i> ).....	Lisbon, Ohio
SUCKOW, ELSIE L. ( <i>Household Arts</i> ).....	Milwaukee, Wis.
SZOLD, ESTHER ( <i>Household Arts</i> ).....	Peoria, Ill.
TANNER, ELLA LYDIA ( <i>Household Arts</i> ).....	Morro, Calif.
TRENCH, AMY HELEN ( <i>Nursing and Health</i> ).....	Cranford, N. J.
TRIMBLE, MARTHA MILLER ( <i>Household Arts</i> ).....	San José, Calif.
UNDERWOOD, IDA JANE ( <i>Elementary Supervision</i> ).....	Pottsville, Pa.
VAUGHN, EMMA ELIZABETH ( <i>Music</i> ).....	Florence, Ala.
WASSER, CHARLES R. ( <i>Industrial Arts</i> ).....	Durham, Pa.
WEBER, SARAH JANE ( <i>Household Arts</i> ).....	Cape Girardeau, Mo.
WELD, FLORENCE MARY ( <i>Household Arts</i> ).....	South Bend, Ind.
WHEELER, CLARIBEL AUGUSTA ( <i>Household Arts</i> ).....	Richmond, Va.
WIBERLEY, ETHEL MAY ( <i>Household Arts</i> ).....	Amenia, N. Y.
WILSON, EDNA ( <i>Household Arts</i> ).....	Washington, Ind.
WOOD, MABEL ( <i>Household Arts</i> ).....	Pacific Grove, Calif.

## UNCLASSIFIED UNDERGRADUATE STUDENTS

BAINBRIDGE, CONSTANCE.....	Charlottsville, Va.
BASSMANN, GERTRUDE E.....	New York City
BELMONT, HARRIET A.....	New York City
BENNETT, IDA MAY.....	East Stroudsburg, Pa.
BLACKMORE, ISABELLE SLADE.....	Trino, Nova Scotia, Can.
BLACKSTOCK, ISABELLA THOBURN.....	Moradabad, India
BOCK, FREDERICK CLEVELAND.....	New York City
BOLLER, ENOLIA HALL.....	New York City
BOYLE, HAROLD LUKE.....	Wallingford, Conn.
BRENNAN, EFFIE.....	Scranton, Pa.
CHURCH, HASELTINE HAMPTON.....	Churchville, N. Y.
COOK, KATE FLOYD.....	Crewe, Va.
DANNAKER, UNITY RAMSEY.....	Wayne, Pa.
DAUBON, ANGELES.....	Santurce, Porto Rico
DAY, BESSIE WOOLLEY (MRS.).....	Kanab, Utah
DEMARIA, TERESA.....	New York City
DEZELLER, MAY PEARL.....	New York City
EDWARDS, HAROLD GLEASON.....	Sag Harbor, N. Y.
EPENDORFF, LINA.....	New York City
FLEMING, GEORGIA ELIZABETH.....	Olney, Ill.
FOWLER, EDITH.....	New York City
FRAZEE, PERLE WILLIAMS (MRS.).....	New York City
GIAMMATTEO, EUGENE STANISLAS.....	Brooklyn, N. Y.
GREENBAUM, MAMIE ROSALIND.....	Bridgeport, Conn.

HARBISON, JESSIE ALICE.....	Sewickley, Pa.
HUSTON, R. B. (MRS.).....	Guthrie, Okla.
HUTCHINSON, ROSE MARY.....	Waterbury, Conn.
JACOBS, MORRIS.....	Bayonne, N. J.
KNAPP, CECILY FLYNN (MRS.).....	St. Louis, Mo.
KUBIE, DOROTHY LEAH.....	Far Rockaway, N. Y.
KUKI, ICHIZO.....	Tokyo, Japan
LEE, CHARLOTTE EMMELINE.....	Huntington, N. Y.
MCDOWELL, ROSE EDITH.....	Billings, Mont.
McKINLEY, JOHN ALOYSIOUS, JR.....	New York City
McQUEEN, KATHERINE.....	Fayetteville, N. C.
MAHANBY, MARGARET BERTRAND.....	Waterbury, Conn.
MARTIN, ELIZABETH REBEKKAH.....	New York City
MERCADO, LUCILA.....	Juana Diaz, Porto Rico
MICHAEL, MOINA BELLE.....	Monroe, Ga.
MINER, LOUIE MAY.....	Bristolville, Ohio
MOORE, ETHEL BUDLONG (MRS.).....	Hanford, Calif.
MORRISON, DAVID HERRON.....	Big Run, Pa.
MYLECRRAINE, GRETA.....	Philadelphia, Pa.
NISLOWSKY, LENA.....	Brooklyn, N. Y.
OVERSTREET, ELSIE BURR (MRS.).....	New York City
POND, BESSIE GERTRUDE (MRS.).....	Urbana, Ohio
PROUDFIT, FAIRFAX THROCKMORTON.....	Memphis, Tenn.
RALPH, MERLE W.....	Yonkers, N. Y.
REIDY, KATHARINE LOUISE.....	New York City
RICHARDSON, HERBERT ELIOT.....	West Brookfield, Mass.
ROCKWELL, HARRIET DOWNES.....	Cleveland, Ohio
ROSS, ALICE.....	Newark, N. J.
SEILER, MARY.....	New York City
SETTLEMYER, EDNA KURZ (MRS.).....	Nanking, China
SKILLING, FANNIE JOHNSON.....	Lonaconing, Md.
SLOAN, MARY JOSEPHINE.....	Worthington, Ind.
SMITH, ALICE WINONA.....	Honolulu, T. H.
SMITH, RUTH McNARY.....	Marshfield, Ore.
STOKES, VICTOR ALBERT.....	New Haven, Conn.
TARVER, ROSALIND NORMAN.....	Selma, Ala.
WALDENBURG, FELIX LOMBERT.....	Brooklyn, N. Y.
WATKINS, FANNIE.....	Greenville, S. C.
WHITE, ANNA MARIE.....	Augusta, Ga.
WILSON, MADÉLE.....	New York City
YOUNG, AGNES ST. CLAIR.....	Greensboro, Ala.

## School of Practical Arts

## FRESHMEN

ABRAMS, ELMA LORENA.....	Goshen, N. Y.
ACKERMAN, MILDRED KINNEAR.....	New York City
BARRY, MARY.....	Flushing, N. Y.
BARTEL, EVELYN STUVVESANT.....	Bayonne, N. J.
BASFORD, KATHARINE MAY.....	Mt. Vernon, N. Y.
BECKER, MARGARET CHRISTINA.....	Wheeling, W. Va.
BETTS, MARGUERITE.....	Highwood, N. J.
BIGGART, HELEN JANE.....	New York City

BILL, PAULINE COMFORT.....	Willimantic, Conn.
BILLINGS, GRACE SAMPSON.....	Brooklyn, N. Y.
BOOTH, ALMA DOWNING.....	New York City
BOYD, BEATRICE.....	Peekskill, N. Y.
BRADY, LORETTA ANN.....	New York City
BRENNAM, RUTH REGINA.....	Yonkers, N. Y.
BROWN, ELIZABETH LEONORA.....	New York City
BUCKLEY, ANNA ELLAN.....	Scranton, Pa.
BURDETT, MILDRED.....	East Orange, N. J.
CAPWELL, DOROTHY E.....	Scranton, Pa.
CARR, KATHRYN LUCILLA.....	Stroudsburg, Pa.
CHAMPLIN, RUTH MARIAN.....	Scranton, Pa.
CHEIFETZ, SADIE.....	New York City
CLAYTON, MARY MORRIS.....	Lewisburg, Pa.
COLDING, EDNA DOROTHY.....	New York City
COLLINS, MARY MARGARET.....	Wilkes-Barre, Pa.
COLLINS, RUTH.....	Hempstead, N. Y.
COOPER, LUCY FRANCES.....	Brooklyn, N. Y.
CORTADA, SARA EMMA.....	New York City
CURTIS, JOHN MORRISON.....	Jersey City, N. J.
DAVIES, GWENLLIAN.....	Hazleton, Pa.
DEARDORFF, RUTH ELIZABETH.....	St. Augustine, Fla.
DEGROODT, MARY IRENE.....	Jersey City, N. J.
DEUTSCH, GLADYS FRANCES.....	New York City
DEUTSCH, IRENE.....	New York City
DICKERT, MILDRED AMELIA.....	New York City
DUNN, ANNA MARIE.....	Passaic, N. J.
DURYEE, RAMONA BROOKS.....	Brooklyn, N. Y.
DWYER, BLANCHE.....	Bayonne, N. J.
DWYER, MAURICE KEVIN.....	Jersey City, N. J.
ECKLEBERRY, MARTHA.....	Ashtabula, Ohio
EDWARDS, FLORENCE.....	Jackson, Ohio
ENTELMANN, MILLY JESINE.....	New York City
EPSTEAN, ETHEL ROSE.....	Lake Hopatcong, N. J.
FALLON, MAY LOUISE.....	Durham, N. C.
FINLAYSON, ROBENA KIRKPATRICK.....	Rockville Centre, N. Y.
FORD, MAY LYTLE.....	New York City
FRANKFURTER, EMANUELLA.....	New York City
GALBRAITH, LILLIAN.....	Troy, N. Y.
GAUL, MARY ELIZABETH.....	Yonkers, N. Y.
GENTZSCH, LILLIAN MARIE.....	Leonia, N. J.
GIBSON, ANNIE KATHARINE.....	Utica, N. Y.
GRAVES, LAURA COTHRAN.....	New York City
HALL, MARIE GLADYS.....	Atlantic Highlands, N. J.
HAVEN, MARGERY PARKER.....	Stratford, Conn.
HECKELMAN, ISAAC.....	New York City
HELLAND, HELEN (MRS.).....	West Brookfield, Mass.
HERETH, MARY MARGARET.....	Brooklyn, N. Y.
HILTON, VIRGINIA.....	Bayonne, N. J.
HOWELL, GENEVIEVE D'AUVERONE YVONNE.....	Brooklyn, N. Y.
HOYT, MARJORIE.....	Scranton, Pa.
HUBBARD, MARION.....	New York City
HUDDERS, ELEANOR.....	Stroudsburg, Pa.
HUMPHREY, MARY ROBBINS.....	New York City
HUNTINGTON, JOSEPHINE.....	Yonkers, N. Y.

HUTTON, ANNA DAPHNE.....	Detroit, Mich.
JARDINE, BEATRICE.....	Kenvil, N. J.
JOHNSON, SARAH CLARKSON.....	Oswego, N. Y.
JONES, VIOLA MAY.....	Jersey City, N. J.
KAPLAN, LILLIAN DOROTHY.....	New York City
KATAYAMA, JOHN YAROKU.....	Osaka, Japan
KISCH, ELSA HELENÉ.....	New York City
KNAPP, HARRIET ELIZABETH.....	Buchanan, N. Y.
KUPFER, HELEN.....	New York City
LANDRINE, MARGARET AMELIA.....	Maywood, N. J.
LANGDON, AGNES COURTNEY.....	Brookline, Mass.
LANGFELD, SELMA H.....	Wilkes-Barre, Pa.
LAWRENCE, EMMA MONTGOMERY.....	Huntington, N. Y.
LENIHAN, MARY MARGARET.....	Laurel Hill, N. Y.
LEVY, MIRIAM.....	Wilkes-Barre, Pa.
McCABE, DOROTHY KERR.....	Greenville, N. Y.
McKELVEY, JESSIE RUTH.....	Jersey City, N. J.
MANOCK, MARGERY.....	Pittsfield, Me.
MEMORY, MILDRED FEAR.....	Maplewood, N. J.
MEYER, ANITA THEODORE.....	New York City
MINER, MARIAN WAKELEY.....	New York City
MOFFAT, ETHEL.....	Orange, N. J.
MORANG, JESSIE.....	Ellsworth, Me.
MORE, MARGARET FLEMING.....	Walton, N. Y.
MORGAN, FRANCES SYBIL.....	Norwich, Conn.
MORRISSEY, LILY.....	New York City
MURGATROYD, RUTH RICHARDS.....	Hartsdale, N. Y.
NARGNEY, CHARLENE.....	Port Washington, Ohio
NORRIS, HELEN AVERY.....	Hot Springs, Va.
NORRIS, NATHALIE KING.....	New York City
OGDEN, FRANCES LAUTERMAN.....	Hackensack, N. J.
PAINE, LOUISE KIRBY.....	Redding, Conn.
PARKER, EDNAH HEPBURN.....	East Rutherford, N. J.
PEENE, EMMA LEFEVRE.....	Yonkers, N. Y.
PEET, RUTH LUCRETIA.....	New York City
PETTEE, CATHERINE.....	Lakeville, Conn.
POWELL, MARION WEBSTER.....	Brooklyn, N. Y.
POWELL, MYRTLE CAROLINE.....	New York City
RECIO, HENRETTE-ALEXANDER.....	New York City
REED, REBA WINGATE.....	Philadelphia, Pa.
REILLY, MARIE MARGARET.....	Scranton, Pa.
RICHARDSON, ISABEL.....	Littleton, N. H.
ROPER, MARION ROBERTSON.....	Riverpoint, R. I.
ROSENKRANZ, PHILIP.....	New York City
RUST, ELSA GENEVA.....	Anaheim, Calif.
SALIVA, ERNESTINA.....	Mayagüez, Porto Rico
SAMMIS, MARJORIE MOORE.....	Stratford, Conn.
SANDFORD, RUTH CANDY.....	South Orange, N. J.
SCHWARTZ, MARION KELLER.....	Plymouth, Pa.
SCOTT, BESSIE DUNN.....	Brooklyn, N. Y.
SCUDDER, ELIZABETH MERENESS.....	New York City
SEWELL, DOROTHY AUSTIN.....	Walton, N. Y.
SIMONSON, ALICE.....	Hollis, N. Y.
SMART, WINIFRED.....	New York City
SMITH, ELISABETH BULKLEY.....	Montclair, N. J.

SMITH, MARGUERITE LEVIA.....	New York City
SONDHEIM, STELLA MAY.....	Richmond Hill, N. Y.
SQUIRES, MARTHA CHRISTIANA.....	Binghamton, N. Y.
STANLEY, EDNA MARGARET.....	Woodcliff-on-Hudson, N. J.
STEWART, ADA.....	New York City
STIEBEL, MILDRED J. F.....	New York City
STOCKTON, EDNA MARGARET.....	Highwood, N. J.
STORMS, DOROTHY ELIZABETH.....	Dobbs Ferry, N. Y.
TAYLOR, LILLIAN BEATRICE.....	Montreal, Canada
TERHUNE, IRMA.....	Jersey City, N. J.
TERRILL, ESTELLE WEST.....	Rahway, N. J.
THURSTON, MARY WHARTON.....	Atlanta, Ga.
TILLMAN, SARAH DOROTHY.....	Rahway, N. J.
TINGLEY, GEORGIA.....	Rahway, N. J.
TOMPKINS, VIRGINIA VORODER.....	Brooklyn, N. Y.
TOWNSEND, CLARA PEARL.....	Greenwich, N. Y.
TUTTLE, HELEN.....	Newark, N. J.
UHL, MARY REBECCA.....	Millersburg, Ohio
UNDERWOOD, HELEN ALICE.....	Lancaster, N. H.
WADE, AMY.....	Eau Claire, Wis.
WALKER, BERTHA LOUISE.....	Morristown, N. J.
WENTE, ELISABETH KATHERINE.....	Cincinnati, Ohio
WINFIELD, KATHARINE LOUNSBERY.....	Charleston, W. Va.
WOLCOTT, MARGARET ELIZABETH.....	Buffalo, N. Y.
WOLF, ANNA MARIE.....	New York City
WOODWORTH, MARGARET AMES.....	Schenectady, N. Y.
WORTMANN, CAROLINE JOHANNA.....	Brooklyn, N. Y.
YONGE, MARJORIE JEAN.....	Pensacola, Fla.

## PRACTICAL ARTS—SOPHOMORES

BARNABY, CLARA ELIZABETH.....	New Brighton, N. Y.
BARRETT, ETHEL ANNA.....	Englewood, N. J.
BARTLETT, MARGERY JUNE.....	Brooklyn, N. Y.
BOARDMAN, ALICE.....	New York City
BYRNES, MARGARET.....	Flushing, N. Y.
DODGE, DOROTHY M.....	New York City
DUSTIN, GERTRUDE OLIVE LORRAINE.....	New York City
ERDMAN, ANNA BUTTON.....	Tarrytown, N. Y.
FRANKE, EMILIE ELISABETH.....	Bound Brook, N. J.
HAVENS, HELEN CURTIS.....	Bridgeport, Conn.
HAVENS, HENRIETTA.....	Tivoli-on-Hudson, N. Y.
HOLINGER, SIGRID.....	McKeesport, Pa.
HOOVER, ANNA LODOR.....	Brooklyn, N. Y.
JARVIS, ELLEN.....	Yonkers, N. Y.
LEONARD, EDITH.....	New York City
MACDERMUT, RUTH.....	Leonia, N. J.
MACKIE, CATHERINE ELIZABETH.....	Bayonne, N. J.
MERLOWITZ, SAMUEL.....	New York City
MUIR, HARRIET LOUISE.....	New York City
MULLEN, ISABELLE MARTHA.....	Little Falls, N. Y.
NATHAN, ELMA.....	New York City
OPPENHEIM, LUCY SECKEL (Mrs.).....	New York City
OSBORN, HILDA.....	Summit, N. J.
REIGART, KATHARINE MIFFLIN.....	Yonkers, N. Y.
ROBERTS, FLORENCE HELEN.....	New York City



ROGERS, HELEN KNIGHT.....	Hampton, Va.
SCHMIDT, MARGARET THERESA.....	New York City
SMITH, GLADYS HOLDEN.....	Kingston, Pa.
SMITH, HELEN FLORENCE.....	Montclair, N. J.
SMITH, HELEN MELISSA.....	Kingston, Pa.
SMITH, JENNIE FRANCES.....	Colebrook, N. H.
TOUSSAINT, EDNA RUTH.....	New York City
TRULAND, HELEN.....	Lancaster, N. H.
TYNDALL, HELEN JEANETTE.....	Mt. Vernon, N. Y.
WEST, LOUIS FRANCIS.....	Brooklyn, N. Y.
WESTERVELT, HARRY IRVING.....	Newburgh, N. Y.
WHITE, ELEANOR STANLEY.....	Orange, N. J.
WHITMAN, ADELAIDE.....	Amherst, Mass.
WICKENDEN, YVONNE ADA.....	Bethel, Conn.
WRIGHT, ADELAIDE MILDRED.....	Greenwich, Conn.

## PRACTICAL ARTS—JUNIORS

AGERTON, ROSE ELISABETH.....	Lima, Ohio
BAUMAN, WILHELMINE.....	Minneapolis, Minn.
CALDWELL, LEILA MAY.....	Kirkwood, Mo.
CAMPBELL, IRENE CHATFIELD.....	Manchester, Conn.
COOPER, ISABEL RUTH.....	Perth Amboy, N. J.
DENNARD, MINNIE PATE (MRS.).....	Hawkinsville, Ga.
EMERSON, ELLA CAMPBELL.....	Wilton, Conn.
FRELIGH, LISLE.....	Romulus, N. Y.
HOOVER, ELVA DAWSON (MRS.).....	Chambersburg, Pa.
HOPKINS, MARION E.....	Hartford, Conn.
INNIS, FLORENCE VICTORIA.....	McCoysville, Pa.
KIPP, RALPH PALMER.....	Ossining, N. Y.
LA GANKE, FLORENCE MAY.....	Cleveland, Ohio
LAWTON, WILHELMINE ALIDA.....	Brooklyn, N. Y.
LEHMANN, MARGARET.....	Bowling Green, Ohio
LEVY, ADELE HELENE.....	Scranton, Pa.
MOUNT, MABEL.....	Atlantic Highlands, N. J.
OSTERHOLM, CLAUS ADOLPH.....	Brooklyn, N. Y.
PALMER, CATHARINE AMORY.....	New York City
PERRY, HELEN CLARK.....	Summit, N. J.
REED, MABEL GERTRUDE.....	Dunkirk, N. Y.
SPILSBURY, BEULAH GYBBON.....	New Rochelle, N. Y.
STODDARD, ALICE GORDON.....	New York City
TOWL, SARAH DEAN.....	Brooklyn, N. Y.
WALKER, JAMES FARQUHARSON.....	New York City
WARREN, ANNE.....	Kansas City, Mo.
WILKES, BERTHA CORINNE.....	New York City

## PRACTICAL ARTS—SENIORS

GRIFFITH, GERTRUDE AUER.....	Brewster, N. Y.
MITCHELL, EDITH.....	Pittsburgh, Pa.
MOSES, FLORENCE.....	Mt. Vernon, N. Y.
PARCEL, ELIZABETH EBBERT.....	Westfield, Ill.
PORTER, HELEN BARBARA.....	Montclair, N. J.
WELD, LUCY ALICE.....	Moorhead, Minn.

## PRACTICAL ARTS—UNCLASSIFIED

ARMSTRONG, BETH.....	Tacoma, Wash.
HALBURT, LILIAN.....	Maco, Tex.
STERTZ, HELEN.....	New York City

## SUMMARY

A. School of Education:	
I. Graduate Students:	
Candidates for Doctor's Degree and Diploma.....	62
Candidates for Master's Degree and Diploma.....	206
Unclassified.....	65
	<hr/>
	333
II. Professional Students:	
Candidates for Bachelor's Degree and Diploma, for Special Diplomas, and for Departmental Certificates:	
For Teaching: Biology 6, Educational Psychology 4, Elementary Education 39, English 54, Fine Arts 81, French 11, Geography 7, German 22, History 37, Household Arts 320, Industrial Arts 53, in Kindergarten 22, Latin 14, Mathematics 51, Music 29, Nursing and Health, 26, Physical Education 43, Physical Science 11, in Secondary Schools 1, Supervising in Elementary Schools 68, Supervising in Kinder- garten 21, Supervising in Primary Grades 12, Candidates for the Bachelor of Science Degree only 43.....	975
III. Unclassified Students.....	68
Less duplicate counts, students candidates for more than one di- ploma.....	5
B. School of Practical Arts:	
I. Freshmen.....	146
II. Sophomore.....	40
III. Junior.....	27
IV. Senior.....	6
V. Unclassified.....	3
	<hr/>
	Total resident registration..... 1593
C. I. Additional matriculated students, Summer Session, 1912.....	616
Net total matriculated students.....	2209
II. Students from other parts of the University.....	350
	<hr/>
	Total matriculated students..... 2559
III. Non-matriculated students (special classes) registered at Teachers College.....	1132
Non-matriculated students (evening technical classes).....	304
	<hr/>
	Total attendance..... 3995
In addition to the above there are this year 1031 pupils in the Horace Mann School and 200 in the Speyer School; total 1231.	
Total attendance at the college and its schools, 5226.	

## COLLEGE OF PHARMACY

### OFFICERS AND TRUSTEES

NICHOLAS MURRAY BUTLER.....	<i>President</i>
EWEN MCINTIRE.....	<i>Honorary President</i>
CHARLES F. CHANDLER.....	<i>Vice-President</i>
THOMAS P. COOK.....	<i>Vice-President</i>
WILLIAM JAY SCHIEFFELIN.....	<i>Vice-President</i>

*Term expires 1913*

OTTO P. AMEND  
ADOLPH HENNING  
CASWELL A. MAYO  
REUBEN R. SMITH  
HENRY C. LOVIS

*Term expires 1914*

WILLIAM C. ALPERS  
MAX J. BREITENBACH  
CHARLES S. ERB  
LEO W. GEISLER, JR.  
ROBERT S. LEHMAN

*Term expires 1915*

ARTHUR H. ELLIOTT  
DAVID COSTELO

ALBERT PLAUT  
ERNEST STAUFFEN

V. CHAPIN DAGGETT

CLARENCE O. BIGELOW.....	<i>Treasurer</i>
THOMAS F. MAIN.....	<i>Secretary</i>
EDWARD W. RUNYON.....	<i>Assistant Secretary</i>
W. B. SIMPSON.....	<i>Clerk of the College</i>

### OFFICERS OF INSTRUCTION

#### The Faculty

President BUTLER  
Dean RUSBY  
Associate Dean DIEKMAN  
Professors ARNY, BASTEDO, CHANDLER, COBLENTZ, CURTIS, DUFF,  
ELLIOTT, GIES, JESSUP, MANSFIELD, OEHLER, VORISEK, WIMMER

#### Other Instructors

FREDERICK A. LESLIE, Phar.D., *Instructor in Analytical Chemistry*;  
CHARLES W. BALLARD, A.M., Ph.C., Phar.D., *Instructor in Materia Medica*;  
JEANNOT HOSTMANN, Ph.G., *Assistant in Chemistry*; GEORGE HOHMANN,  
Ph.G., *Assistant in Pharmacy*.

## OTHER OFFICERS OF ADMINISTRATION

(See page 9)

## GENERAL STATEMENT

The College of Pharmacy of the City of New York, founded in 1829, chartered in 1831, and recognized in 1879 by the Regents as part of the University of the State of New York, became a member of the educational system of Columbia University on July 1, 1904. The President of the University is *ex-officio* President of the College of Pharmacy, and the College is represented in the University Council by its Dean, who is appointed by the Trustees of the College of Pharmacy on the nomination of the President. The College, however, maintains its separate corporate organization, and its Trustees continue to provide for its financial support.

The College is situated at 115 West 68th Street, near Columbus Avenue, in an especially well-equipped building erected in 1894.

The College of Pharmacy is thus the professional school of Columbia University for pharmacists, pharmaceutical chemists, and Doctors of Pharmacy and, as well, a valuable addition to the University's resources for teaching and research in botany, chemistry, and materia medica.

## ADMISSION

(See page 169)

Students who are to be examined for admission will be examined either at the Regents' examination, or at the January and September entrance examinations of Columbia University, or of the College Entrance Examination Board, which are held in June of each year. (See page 169.)

## College Course

This course is open, according to statute, only to persons holding the Qualifying Certificate for a Pharmacy Student, granted by the State Education Department for 15 Regents' counts or their equivalent. (Leading to the degree of Ph.G.)

## University Course

This course is open only to persons holding the 60 count Pharmacy Students' Certificate of the Regents of the State of New York, or the corresponding credentials of Columbia University or of the College Entrance Examination Board. (Leading to the degree of Ph.C.)

## Graduate Course

This course is open to pharmaceutical chemists of this or other schools of equal grade or those holding equivalent degrees. (Leading to the degree of Phar.D.)

### Food and Drug Course

This course is open to all graduates of this College, and to others whose training has qualified them to perform the necessary work.

### COURSES OF STUDY

1. A College course, consisting of a junior and senior year, leading to the degree of Graduate in Pharmacy, conferred by the College independently of the University, and qualifying the graduate to meet any examination for the position of licensed pharmacist.

The work undertaken is as follows: Junior year—physics, general and pharmaceutical chemistry, analytical chemistry, practical pharmacy, dispensing pharmacy, botany, pharmacognosy, physiology, and toxicology. Senior year—organic chemistry, inorganic and organic pharmaceutical chemistry and urinalysis, analytical chemistry, practical pharmacy, dispensing pharmacy, materia medica, toxicology, commercial pharmacognosy, histological pharmacognosy.

2. A University course of two years leading to the degree of Pharmaceutical Chemist, conferred by the University. The work undertaken in this course differs from that of the College course in being of a somewhat more advanced character, and in being pursued through the full academic year. It includes instruction in general biology and a laboratory course in physics, in addition to the studies of the College course. Part of this work is performed by the medical department of the University.

3. A third or graduate course of one year, leading to the degree of Doctor of Pharmacy. This course is designed to fit graduates for positions as analysts and microscopists, and for making urinary analyses, bacteriological examinations, and performing other work of the kind. It consists of practical work in plant analysis, technical microscopy and bacteriology, quantitative and organic analysis, and lecture courses in the theory and practice of inorganic quantitative analysis, commercial organic analysis and toxicology, and physiological chemistry. Students so desiring may add a second year to this course, making their entire course the equivalent of that leading to the degree of Bachelor of Science.

4. A course of one year in the microscopical and chemical analysis of foods and drugs. A Summer Preparatory Course of twelve weeks is provided for those who, for any reason, require training in special subjects as a preparation for the Food and Drug Course.

5. A number of special courses of instruction have also been established partly for the benefit of those regular students who desire, for any reason, to specialize in certain lines of work, and partly to provide instruction in individual departments for those who do not desire to take the full course. Certificates, but not diplomas, are awarded to such students. These special courses of instruction are in pharmacognosy, chemical analysis, advanced inorganic and organic chemistry, and practical pharmacy.



### Method of Instruction

During the junior and senior years the instruction occupies three days of the week, the alternate days being free for that practical experience in the pharmacy which is required by Boards of Pharmacy. This arrangement enables students to meet the Board requirements, and it also provides a means of paying the expenses of a majority of students.

Many students, under the advice of the Faculty, prefer to devote the entire time of the second year to college work. For those so desiring, additional instruction is provided.

In addition to lectures and laboratory work a series of recitations or quizzes, by a corps of qualified instructors, is given to the classes, in small sections.

### Prizes

(See page 450)

## REGISTER OF STUDENTS

### COLLEGE OF PHARMACY

#### SENIOR UNIVERSITY CLASS

ACKERMAN, EDWIN B.....	Brooklyn, N. Y.
BENDER, MORRIS.....	New York City
BIGELOW, ORRIN O.....	Richfield Springs, N. Y.
CABRERA, RAFAEL.....	Managua, Nicaragua
CALVELLI, ALFRED F.....	New York City
CAPLAN, LEWIS L.....	New York City
COTTRELL, OSCEOLA P.....	Keyport, N. J.
CRANE, EMORY M.....	Somerville, N. J.
DAVIS, DALTON.....	Scranton, Pa.
DELIGUORI, ALPHONSO G.....	Waterbury, Conn.
FINKELSTEIN, WILLIAM.....	New York City
FLETT, RAYMOND F.....	Atlantic Highlands, N. J.
GINSBURG, BENJAMIN.....	New York City
GOODMAN, SAMUEL.....	New York City
GREGORY, M. GOLVER.....	New Canaan, Conn.
HALPER, ARTHUR V.....	New York City
HAMMOND, FREDERICK G.....	Montgomery, Ala.
IRVIN, KARL F.....	Altoona, Pa.
LEGOLL, JOSEPH C.....	New York City
PLANTEN, JOHN R.....	New York City
PROTOPAPAS, CHRIST P.....	Athens, Greece
SCHOELLES, WILLIAM.....	Sea Cliff, L. I.
SOLOMONS, ISAIAH A.....	Savannah, Ga.
STEINMAN, ISIDORE.....	New York City
TAYLOR, WILLIAM.....	New York City
TRAUB, ADAM J. A.....	Elizabeth, N. J.
VOGEL, HYMAN.....	New York City
WRIGHT, EDNA W.....	Bridgeport, Conn.
WEINER, J. H.....	Belle Harbor, L. I.
ZIMMERMAN, THOMAS A.....	Weehawken, N. J.

#### SENIOR COLLEGE CLASS

ALT, FREDERICK.....	New York City
ANDREWS, ARTHUR H.....	Mineola, L. I.
ALES, FRANCESCO A.....	New York City
ALLEN, WILLIAM COOPER.....	Rye, N. Y.
ANDAVALL, ARIS J.....	Constantinople, Turkey
ANDREOLA, NICHOLAS.....	New York City
ANZE, SIMON S.....	New York City
AUGSBURY, THEODORE BYRON.....	Plessis, N. Y.
AVSTREIH, SOL M.....	New York City

BLUESTONE, ISAAC H.....	New York City
BALL, ROY W.....	Monroe, N. Y.
BELLIS, SAUL E.....	New York City
BENTON, HAROLD L.....	Middletown, N. Y.
BOCKMAN, FREDERICK AUGUSTUS.....	Utica, N. Y.
BOTKIN, REUBEN J.....	Bayonne, N. Y.
CANNISTRA, JOSEPH.....	New York City
CHAFEY, JAMES H.....	Pt. Pleasant, N. J.
CHRISMAN, RUSSELL K.....	Syracuse, N. Y.
COLLEY, ARTHUR R.....	Wilkes-Barre, Pa.
CAPPETTA, JOSEPH.....	New York City
CARFORA, BENEDETTO.....	New York City
CARROLL, WILLIAM T.....	Brewster, N. Y.
CASO, FRANK P.....	New York City
CHANOWITCH, SIMON.....	New York City
COHEN, LOUIS.....	New York City
DAUB, ARTHUR B.....	New York City
DEGELE, CARL S.....	Columbia Park, L. I.
DIMICELI, MORRIS.....	New York City
DRURY, EDSSELL M.....	Little Britain, N. Y.
DYROFF, WILLIAM E.....	Highland Falls, N. Y.
DUBINBAUM, ASHER Z.....	New York City
DUNN, MORRIS V.....	Madison, Wis.
EDEN, WILLIAM H.....	Brooklyn, N. Y.
EPSTEIN, ISADORE.....	New York City
ETTINGER, JEROME E.....	New York City
FASANO, SYLVIO A.....	New York City
FÜRER, CHARLES W.....	Sheepshead Bay, N. Y.
FEINBERG, SAMUEL W.....	New York City
FLAXMAN, HARRY.....	Coney Island, N. Y.
GANOW, STACY B.....	Ithaca, N. Y.
GROSSO, ANNA.....	New York City
GAETANO, PETER.....	New York City
GOLDSCHMIDT, JACOB.....	New York City
GOODMAN, EMERY I.....	New York City
HAMLIN, LYNN C.....	Deansboro, N. Y.
HAYES, BENJAMIN A.....	Dobbs Ferry, N. Y.
HODES, HARRY H.....	New York City
HARKAVY, ABRAHAM L.....	Brooklyn, N. Y.
HARTIG, LEO J.....	Middletown, N. Y.
HARTSTEIN, MORRIS.....	Peekskill, N. Y.
HAYES, FRANK S.....	Utica, N. Y.
HEINE, CHARLES.....	Wiesbaden, Germany
HOFFMAN, CLARENCE G.....	Utica, N. Y.
JACOBSON, NICHOLAS M.....	Yonkers, N. Y.
JOHNSON, DAVID H. W.....	Larchmont Manor, N. Y.
JAFFE, RAYMOND.....	Newark, N. J.
KLOOMOK, ISAAC.....	New York City
KRAMER, LOUISE.....	New York City
KRUEGER, WERNER.....	New York City
KASCHUCK, EMANUEL.....	Brooklyn, N. Y.
KATZ, SAMUEL.....	Livingston Manor, N. Y.
KELLER, ROBERT.....	Liberty, N. Y.
KENNEY, EDWARD P.....	Long Eddy, N. Y.
KRAMER, ABRAHAM H.....	Coney Island, N. Y.
LOORI, DANIEL A.....	Jersey City, N. J.

LA MANTIA, SALVADOR.....	New York City
LAZARUS, ABRAHAM I.....	New York City
LEFF, MAX.....	New York City
LEVIN, PHILIP A.....	New York City
LEVINE, HYMAN.....	New York City
LEVINE, MORRIS.....	Patterson, N. J.
LEVINSON, SAM A.....	Harrison, N. Y.
MACDONALD, ELMER H.....	Hackensack, N. J.
MASHIN, WILLIAM F.....	Brooklyn, N. Y.
MATUSOW, ESTHER.....	New York City
MILLER, JOS. E.....	Scranton, Pa.
MOELLERING, CHRISTIAN H. W.....	Newark, N. J.
MONROE, HARRY W.....	Herkimer, N. Y.
MUNN, SAMUEL A.....	Yonkers, N. Y.
MUSCAT, BENJAMIN.....	Rochester, N. Y.
MAHONEY, EDWARD.....	Westerly, R. I.
MARTINEK, ANTON.....	New York City
MASLON, BENJAMIN.....	New York City
MILLER, ABRAHAM.....	New York City
MIRAGLIA, JOHN A.....	Hoboken, N. J.
MOSKOWITZ, JACOB.....	New York City
PEET, FLORENCE I.....	Yorktown Heights, N. Y.
PORRECA, LOUIS.....	Hackensack, N. J.
PICOZZI, SALVATORE.....	Brooklyn, N. Y.
PRINCE, HARLAN G.....	New York City
PRINZIVALLI, SALVATORE.....	New York City
PURICK, GEORGE B.....	Smithtown Branch, L. I.
REIS, CHARLES P.....	Syracuse, N. Y.
RIVEIN, SAMUEL M.....	New York City
RUCH, FRED.....	Utica, N. Y.
RODGERS, FRED T.....	Middletown, N. Y.
ROSENFELD, HARRY.....	New York City
SANCHEZ, MIGUEL.....	Manzanillo, Cuba
SCHAMACH, CHARLES.....	Paterson, N. J.
SHORT, LOUIS D.....	Calais, Me.
SCHUEYERMAN, HENRY W.....	New York City
SORGI, ANDREW O.....	New York City
SPIEGEL, HERMAN.....	New York City
TRAGER, JOSEPH.....	New York City
TRAVERS, THOMAS J.....	New York City
WAGNER, GEORGE L.....	Milford, Pa.
WATTERS, CHARLES J.....	So. Glen Falls, N. Y.
WINDT, ERNEST.....	New York City
WRIGHT, SAMUEL B.....	Salisbury Mills, N. Y.
WAGNER, ABRAHAM.....	Coney Island, N. Y.
WEINSTEIN, SOLOMON.....	New Bedford, Mass.
WEISS, FRED A.....	Brooklyn, N. Y.
WEISS, LOUIS.....	New York City
YOUNG, H. WILLARD.....	Yonkers, N. Y.
ZIEGLER, HARRY C.....	New York City
ZUPARN, MAURICE.....	New York City
ZUCKERMAN, HYMAN.....	New York City

## JUNIOR UNIVERSITY CLASS

ACKERMAN, J. SEBRING.....	Ossining, N. Y.
ARGUÉLLO, JOSÉ EVÉNOR.....	Managua, Nicaragua

ARONSTAMM, GEORGE CHARLES.....	New York City
ATWOOD, EDWARD ALLISON.....	Paterson, N. J.
BALDWIN, EARL MILTON.....	State Line, Mass.
BERNER, FRANK.....	New York City
BOURNE, J. A. V.....	New York City
BROTHERTON, HAROLD TAYLOR.....	Peekskill, N. Y.
BROWN, LEWIS N.....	Sag Harbor, N. Y.
CANNELLA, GUISEPPE.....	New York City
COGSWELL, GEORGE RANDALL.....	Rome, N. Y.
COLE, EDWARD MARTIN.....	Rome, N. Y.
COLFAX, MARGUERITE A.....	Pompton Lakes, N. J.
CRYSTAL, BENJAMIN H.....	Brooklyn, N. Y.
DIXON, AARON M.....	Butler, N. J.
DIXON, MAYNARD H.....	Newark, N. J.
DRAPKIN, SAMUEL R.....	Brooklyn, N. Y.
EICHACKER, EDWARD GEORGE.....	Brooklyn, N. Y.
EMBREE, CARLTON S.....	Stamford, Conn.
EMMETT, HAROLD F.....	Bristol, Conn.
EMSLIE, STUART L.....	Cornwall, N. Y.
FASANO, EMIDIO.....	Jersey City, N. J.
FRANCESCHI, ANTONIO.....	New York City
FRAWLEY, FRANCIS A.....	Bangor, Me.
FRIED, ROSE.....	New York City
GOLDBERG, SAUL.....	New York City
GOLDSTEIN, JOSEPH.....	New York City
GRITZ, DAVID K.....	New York City
HENKEL, WALDEMAR.....	Brooklyn, N. Y.
HERMAN, ALEC JACOB.....	Norwich, Conn.
HOAGLAND, VEBBER C.....	Cobleskill, N. Y.
HUDES, HENRY L.....	New York City
JACOBS, MORTIMER.....	Paterson, N. J.
JONES, ROSCOE S.....	Suffern, N. Y.
KENNEDY, JOSEPHENE ST. B.....	Charleston, S. C.
KLEIN, HARRY L.....	New York City
KRAMER, KATE.....	New York City
LEVINE, MORRIS.....	New York City
MANGO, LOUIS V.....	New York City
MARKHAM, BURT C.....	Constableville, N. Y.
MARTUS, JEROME HENRY.....	New York City
MIRAGLIA, MICHAEL J.....	New York City
MURRAY, EDWIN T.....	Bangor, Me.
ODELL, DANIEL W.....	Tarrytown, N. Y.
OSBORN, THOMAS G.....	Riverhead, L. I.
PAROTZKY, JULIUS.....	New York City
POSIN, SCHALEM E.....	Brooklyn, N. Y.
PROPPER, RUTH.....	New York City
QUACKENBUSH, LE ROY.....	Jersey City, N. J.
RABINOWITZ, ISADORE.....	New York City
RABINOWITZ, SAMUEL A.....	New York City
RASKIN, HARRY.....	Jersey City, N. J.
RITTER, ISIDORE.....	New York City
SALCEDO, JOSÉ ERNESTO.....	Santiago de Cuba
SCHNEIDER, JOE A.....	New York City
SCHULER, ISABELLE C.....	Reno, Nevada
SIMON, MANFRED.....	New York City



SOMERS, CHARLES J.....	Jersey City, N. J.
STARK, FRANCIS S.....	New York City
STOTCHIK, JULIUS.....	New York City
TELL, JOS. J.....	New York City
TERWILLIGER, HARRY.....	Kerhonkson, N. Y.
THOMPSON, CLARENCE G.....	New York City
TWERSKY, MORRIS B.....	Brooklyn, N. Y.
WANDERMAN, SIMON.....	New York City
WEINREB, CHARLES.....	New York City
WIRKLICH, HARRY.....	New York City
ZEROFF, MAX H.....	New York City

## JUNIOR COLLEGE CLASS

AGER, LENA O.....	New York City
AJAMIAN, CHARLES.....	New York City
ALLMAN, RAYMOND J.....	Wilkes-Barre, Pa.
AMEDIO, JOS. B.....	New York City
ANDERSON, ALBERT F.....	Corona, L. I.
ANZALONE, SALVATORE.....	New York City
ARCABASSO, JAMES C.....	New York City
ARCHER, WARD F.....	New Rochelle, N. Y.
ARONSOHN, HARRY S.....	New York City
BADOLATI, LOUIS.....	New York City
BARENZANO, JOS. N.....	New York City
BEANE, MAX.....	New York City
BEDIGAN, MICHAEL H.....	New York City
BEDRICK, MAX.....	New York City
BIDDLEMAN, HAROLD R.....	Scranton, Pa.
BOUGHER, CLIFFORD I.....	Jamaica, L. I.
BOUNIN, ISAAC.....	New York City
BOWEN, JOHN.....	Wilkes-Barre, Pa.
BRETTER, BERNARD.....	New York City
BROWN, JOEL W.....	Port Jefferson, N. Y.
BRUSILOVSKY, BENJAMIN I.....	New York City
BURMEISTER, HENRY A.....	New York City
CALLAHAN, FRANCIS A.....	Piermont, N. Y.
CAPECI, ERNEST.....	Port Chester, N. Y.
CASO, VINCENT.....	New York City
CAVALLO, GAETANO.....	New York City
CHASAN, DAVID.....	New York City
CHEBOT, NORMAN B.....	Fall River, Mass.
CIANCIGULLI, CAMILLO.....	New York City
CIMINO, CONSTANTINO OVIDIO.....	Emerson, N. J.
COHN, NATHAN.....	New York City
COLLEY, ROBERT R.....	Wilkes-Barre, Pa.
CONCIALDI, LEWIS.....	Rockaway, N. J.
CONOVER, HENRY.....	Irvington, N. J.
CRAGG, EDWARD.....	Mt. Vernon, N. Y.
DALY, VINCENT P.....	Richfield Springs, N. Y.
DAVIS, BROOKE J.....	Brooklyn, N. Y.
DE CARO, PETER.....	New York City
DE LALLA, MICHELE.....	Utica, N. Y.
DE MAIO, HENRIETTA.....	New York City
DENNIS, CLARENCE F.....	Augusta, N. J.

DWORETZKY, LOUIS	New York City
EMANUEL, MEYER	New York City
FENIELLO, JEREMIAH	New York City
FERBER, SAMUEL	New York City
FERRO, EDWARD	New York City
FINELLO, RALPH F.	Jersey City, N. J.
FLEMING, JAMES W.	Wallingford, Conn.
FLETCHER, THOMAS F.	Utica, N. Y.
FORMAN, JULIUS	New York City
FRANKLIN, LOUIS	New York City
FRIEDMAN, SOLOMON	New York City
FROHWEIN, OTTO	New York City
GALATERIA, ANTHONY	New York City
GHIRARDI, FORTUNATO O.	New York City
GIAQUINTO, EUGENE	New Haven, Conn.
GITTLEMAN, HARRY	New York City
GODES, HERMAN J.	New York City
GOLDBERG, HENRY	New York City
GOLDFARB, DAVID	New York City
GOLDMAN, ISRAEL	Brooklyn, N. Y.
GORDON, MAXIMILIAN P.	New York City
GOTTESMAN, LOUIS	New York City
GOURIN, BORIS	New York City
GREEN, JOHN JOSEPH	Scranton, Pa.
GREENE, FRANK A.	Suffern, N. Y.
GURRY, EDWARD A.	Utica, N. Y.
HAMMER, HARRY J.	New York City
HANNIGAN, WILLIAM F.	New Rochelle, N. Y.
HARTMAN, EUGENE E.	Brooklyn, N. Y.
HERGERT, CARL H.	Elizabeth, N. J.
HERTZ, ORRIN	Norwich, Conn.
HIRSCH, PHILIP	Yonkers, N. Y.
HORWITZ, HARRY	New York City
HOROWITZ, HYMAN	New York City
ISKENDERIAN, HAROUTUNE G.	New York City
ISRAEL, SAMUEL	New York City
JANCERIS, RALPH	Amsterdam, N. Y.
JARVIS, HAROLD L.	Ilion, N. Y.
KAMINSKI, THEODORE C.	Brooklyn, N. Y.
KANNER, LEON	New York City
KAPLAN, SAMUEL	Brooklyn, N. Y.
KAPFLOW, MAURICE L.	New York City
KASSNER, ARNO W. C.	Jamaica, L. I.
KATZEN, HERMAN	New York City
KENNEDY, AUGUSTUS T.	New Bern, N. C.
KINANE, THOMAS E.	New York City
KIRSCHNER, WILLIAM L.	New York City
KLEIN, SAMUEL M.	New York City
KODET, EDWARD J.	New York City
KOHN, ALBERT	Bayonne, N. J.
KOPLIK, MAX	New York City
KRANCER, JEROME	New York City
LAMBERT, ALBERT J.	Brooklyn, N. Y.
LANIGAN, JOS. B.	Elizabeth, N. J.
LECHNER, LUDWIG	New York City

LENT, EVERETT.....	Montrose, N. Y.
LENT, FRANK S.....	Peekskill, N. Y.
LENER, BENJAMIN.....	Hoboken, N. J.
LEVY, ABRAHAM SIDNEY.....	New York City
LIFSCHITZ, IRVING.....	New York City
LIGORIO, COSIMO.....	New York City
LIONE, JOHN.....	New York City
LIPPIN, SAMUEL DAVID.....	New York City
LOEVIN, ARTHUR.....	New Rochelle, N. Y.
LORD, CLARENCE STERLING.....	Mansfield, Mass.
LOVECE, NICHOLAS.....	New York City
McNAMARA, JAMES.....	Northampton, Mass.
McSHEEHY, FRANK B.....	Whitingsville, Mass.
MAGGIO, MICHAEL A.....	New York City
MARIANOWSKY, JACOB.....	Brooklyn, N. Y.
MARKOWITZ, MURRAY.....	New York City
MICHELS, JACOB A.....	New York City
MINIKES, SOL EDGAR.....	New York City
MOADINGER, EDGAR LEWELLYN.....	Walden, N. Y.
MOSKOWITZ, NATHAN.....	New York City
MOSTOFF, SAUL.....	New York City
MUSKIN, LOUIS.....	New York City
NALITT, IRVING.....	Bayonne, N. J.
NEEDLES, GEORGE ARTHUR.....	New York City
NIEMETZ, HARRY D.....	New York City
NODELMAN, NATHANIEL.....	New York City
OFRIAS, MISS ROSE FRANCES.....	New York City
PASSANNANTE, ORLANDO.....	New York City
PATTEN, LLOYD H.....	Jamesburg, N. J.
PAULONIS, JOSEPH FRANCIS.....	Brooklyn, N. Y.
PEDDIE, ROY MCFARLAND.....	Glen Falls, N. Y.
PEIZER, DAVID I.....	Hartford, Conn.
PERNICE, JOSEPH.....	Brooklyn, N. Y.
RABINOWITZ, LAZAR.....	New York City
RABINOWITZ, MORRIS.....	Brooklyn, N. Y.
RAMPULLA, JOSEPH J.....	Brooklyn, N. Y.
REISS, LOUIS.....	New York City
RESNICK, SAMUEL.....	Brooklyn, N. Y.
RICHMOND, IRVING FREDERICK.....	Ellenville, N. Y.
RINALDI, ALFRED.....	New York City
RIPOLI, SILVIO.....	New York City
ROSE, DUNCAN NORWELL.....	White Plains, N. Y.
ROSEN, MAX.....	New York City
ROSENFELD, ABRAHAM.....	New York City
ROSENFELD, SOL.....	New York City
ROSENFELD, ABRAHAM J.....	New York City
ROSENTHAL, MYRON J.....	New York City
ROSENZWEIG, MISS MIRIAM E.....	New York City
ROTHMAN, SAMUEL P.....	New York City
ROTHSTEIN, MISS MARY.....	New York City
RUDERMAN, MORRIS DAVID.....	New York City
RUPP, EDWARD.....	Milford, Pa.
SACK, FRANCIS M.....	New Brighton, S. I.
SANCHEZ, JOSÉ.....	Comerio, Puerto Rico
SCHAEFER, EDMUND D.....	Sag Harbor, N. Y.

SCHAFER, SAMUEL.....	Brooklyn, N. Y.
SCHEINBERG, SAMUEL L.....	New York City
SCHNEIDER, LAWRENCE V.....	Kingston, N. Y.
SCHORNSTEIN, JOSEPH.....	Newark, N. J.
SHWALB, HARRY.....	Jersey City, N. J.
SCHWERSSENS, ROBERT.....	Brooklyn, N. Y.
SCIACCA, JOHN.....	New York City
SEELBY, HUGH H.....	Southampton, L. I.
SEVERINO, PASQUALE.....	New York City
SHEINAUS, LOUIS.....	New York City
SIEGEL, SAMUEL.....	New York City
SIMON, SAMUEL M.....	Brooklyn, N. Y.
SPITALE, GAETANO J.....	New York City
STEINHART, ABRAHAM.....	New York City
STERN, JOSEPH.....	New York City
STEWART, MASON.....	New York City
STORM, CHARLES M.....	Matteawan, N. Y.
STRISOWER, BERNARD.....	New York City
TERRIS, EDWARD.....	Brooklyn, N. Y.
THOMPSON, ARTHUR E.....	New Brighton, S. I.
TOOMEY, DANIEL M.....	Newport, N. Y.
TRAINOR, JOSEPH A.....	Peekskill, N. Y.
TROTTA, REMO.....	New York City
TROY, JOHN J.....	West Stockbridge, N. Y.
UNTERMAN, WILLIAM.....	New York City
VENETUCCI, JUSTIN.....	New York City
VITALE, NICHOLAS J.....	New York City
WALLACE, JOHN J.....	Middletown, N. Y.
WEISS, FRED.....	Brooklyn, N. Y.
WEISSE, MISS ELIZABETH.....	Yorktown Heights, N. Y.
WIENER, NATHAN.....	Brooklyn, N. Y.
WILLIAMS, LUCIUS A.....	Brockport, N. Y.
WILSON, ABRAHAM.....	New York City
WINDT, JOSEPH.....	New York City
WODICKA, MRS. FLORENCE V. G.....	New York City
WU, STEZJAN.....	Canton, China
ZIBULSKY, WILLIAM.....	Brooklyn, N. Y.
ZIPEROWITZ, ABRAHAM H.....	Brooklyn, N. Y.
ZUCKER, LOUIS WILBUR.....	Hoboken, N. J.

## POST-GRADUATE CLASS

BUCK, AINSLIE.....	Brooklyn, N. Y.
CROCKETT, WILLIAM G.....	Tazewell, Va.
JEE, HENSHAW.....	Tien Tsin, China
MUENCH, ALBERT A.....	Syracuse, N. Y.
OEHLERS, HERBERT C.....	Chestnut Hill, Conn.
PICKHARDT, ELSA G.....	New York City
SCHAEFER, HUGO H.....	Brooklyn, N. Y.
STEIN, LEO.....	New York City

## FOOD AND DRUG CLASS

HAEFELI, WILLIAM.....	College Pt., L. I.
PELLETTIERE, ELIAS V.....	Utica, N. Y.

## SUMMARY

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### SPECIAL

CANGIALOSI, CIRO.....	New York City
KARPMAN, ALEXANDER.....	New York City
MORHIO, M. N. ....	New York City
PARKER, MISS LINETTE A.....	New York City
WAIGNER, EDWARD.....	New York City

### SUMMARY

Juniors.....	258
Seniors .....	147
Post Graduates.....	8
Food and Drug.....	2
Special.....	5



## SUMMER SESSION AND EXTENSION TEACHING

### SUMMER SESSION OF 1912

#### Officers of Instruction

EUGENE E. AGGER, Ph.D., *Economics*; LUTHER HERBERT ALEXANDER, Ph.D., *Romance Languages*; BENJAMIN MCALLISTER ANDERSON, JR., Ph.D., *Economics*; BENJAMIN R. ANDREWS, Ph.D., *Household Arts*; CARRIE VAN R. ASHCROFT, B.S., *Physical Education*; JULIA HILL ATWELL, B.S., *Fine Arts*; RICHARD FRANZ BACH, A.B., *Architecture*; ELIJAH WILLIAM BAGSTER-COLLINS, A.M., *German*; FRANKLIN THOMAS BAKER, A.M., *English*; LYDIA RAY BALDERSTON, B.S., *Household Arts*; LAURA I. BALDT, B.S., *Household Arts*; CHARLES SEARS BALDWIN, Ph.D., *English*; JOHN SPENCER BASSETT, Ph.D., *History*; HAL TRUMAN BEANS, Ph.D., *Chemistry*; ALEXANDER OTTO BECHERT, A.M., *German*; GUSTAV L. BECKER, *Music*; E. ELIZABETH BEERS, *Kindergarten*; FREDERICK REGINALD BEYGRAU, *Stenography*; CHARLES F. BINNS, *Industrial Arts*; FREDERICK GORDON BONSER, Ph.D., *Industrial Arts Education*; WILLIAM FREDERICK BOOK, A.B., *Psychology*; WILHELM ALFRED BRAUN, Ph.D., *German*; WILLIAM EDWIN BRECKENRIDGE, A.M., *Mathematics*; JEAN BROADHURST, A.M., *Biology*; FRANCIS BROWN, D.D., *Biblical Literature*; GRACE LILLIAN BROWN, *Kindergarten Education*; HAROLD CHAPMAN BROWN, Ph.D., *Philosophy*; CHARLES K. BURDICK, A.B., *Law*; CHARLES HOWARD BURNSIDE, A.M., *Mechanics*; WILLIAM B. CAIRNS, Ph.D., *English*; ROBERT EMMET CHADDOCK, Ph.D., *Economics*; LOIS COFFEY, B.S., *Industrial Arts*; ALBERT M. COHN-MCMASTER, *Romance Languages*; GERTRUDE KLINE COLBY, *Physical Education*; ROSSETTER G. COLE, Ph.B., *Music*; ELLA PHILLIPS CRANDALL, *Household Arts*; CAROLINE CRAWFORD, *Physical Education*; LEONTIDAS WAKEFIELD CRAWFORD, JR., A.M., *Excursions*; JAMES EDWIN CREIGHTON, LL.B., *Philosophy*; CARLTON CLARENCE CURTIS, Ph.D., *Botany*; SUMNER WEBSTER CUSHING, *Geography*; WILLIAM HAWLEY DAVIS, Ph.D., *English*; MICHAEL F. DEE, A.M., *Law*; JOSEPH VILLIERS DENNEY, A.M., *English*; JOHN DEWEY, Ph.D., *Philosophy*; LLOYD L. DINES, Ph.D., *Mathematics*; BERNARD OGILVIE DODGE, A.B., *Botany*; HELEN DONOVAN, B.S., *Household Arts*; ARTHUR WESLEY DOW, *Fine Arts*; LILLIAN CURTIS DREW, *Physical Education*; ANDREW WHEATLEY EDSON, A.M., *Educational Administration*; JANE FALES, B.S., *Household Arts*; FREDERICK ERNEST FARRINGTON, Ph.D., *Educational Administration*;

HERMAN WALDO FARWELL, A.M., *Physics*; FRANKLIN CHARLES FETTE, Ph.B., *Physical Education*; CHARLES REINHARD FETTKE, A.M., *Geology*; WILLIAM BENJAMIN FITE, Ph.D., *Mathematics*; JOHN DRISCOLL FITZGERALD, II, Ph.D., *Romance Languages*; EDWARD JOSEPH FORTIER, A.B., *Romance Languages*; BAILEY B. FOSTER, *Physical Education*; NELLIS B. FOSTER, M.D., *Biological Chemistry*; WILLIAM FOSTER, *Chemistry*; JAMES EVERETT FRAME, A.M., *New Testament Literature*; WILLIAM S. FRANKLIN, Sc.D., *Physics*; LUCILE GRACE FRENCH, *Household Arts*; JOSEPH FLOYD FULLER, *Industrial Arts*; GRACE FULMER, *Kindergarten Education*; JOHN LAWRENCE GERIG, Ph.D., *Romance Languages*; FRANKLIN HENRY GIDDINGS, Ph.D., *Sociology*; WILLIAM JOHN GIES, Ph.D., *Biological and Physiological Chemistry*; RALPH W. GIFFORD, A.B., *Law*; ALEXANDER A. GOLDENWEISER, Ph.D., *Anthropology*; AMADEUS WILLIAM GRABAU, Sc.D., *Geology*; ROBERT P. GRAY, *Household Arts and Fine Arts*; CHARLES C. GROVE, Ph.D., *Mathematics*; LILLIAN M. B. GUNN, *Household Arts*; EMMA H. GUNTHER, B.S., *Household Administration*; EVERETT J. HALL, *Chemistry*; WALTER HENRY HALL, *Music*; CHARLES A. HARRIMAN, *Architecture*; MELLEN WOODMAN HASKELL, Ph.D., *Mathematics*; CARLTON HUNTLEY HAYES, Ph.D., *History*; ROWLAND HAYNES, *Physical Education*; ERNEST NORTON HENDERSON, Ph.D., *Philosophy of Education*; FAYE HENLEY, *Kindergarten*; FREDERICK WILLIAM JUSTUS HEUSER, A.M., *German*; MILO BURDETTE H. HILLEGAS, Ph.B., *Elementary Education*; HARRY LEVI HOLLINGWORTH, Ph.D., *Psychology*; GEORGE T. HOLM, *Physical Education*; GORDON FERRIE HULL, Ph.D., *Physics*; OTTO VICTOR HUMANN, *Fine Arts*; EDWARD FRANK HUMPHREY, A.M., *History*; JOHN WILLIAM INGLE, JR., *Architecture*; HAROLD JACOBY, Ph.D., *Astronomy*; HELEN REX KELLER, B.L., *Library Economy*; BURTON WARREN KENDALL, S.B., *Physics*; ANDREW KEOGH, A.M., *Library Economy*; P. JOSEPH KERSEY, *Physical Education*; WILLIAM HEARD KILPATRICK, Ph.D., *History of Education*; CLARA BARBARA KIRCHWEY, *Geography*; GEORGE WASHINGTON KIRCHWEY, A.B., *Law*; CHARLES KNAPP, Ph.D., *Latin, Greek*; S. BERNARD KOOPMAN, B.C.S., *Bookkeeping*; WILLIAM JACOB KRAFT, B.M., *Music*; GEORGE PHILIP KRAPP, Ph.D., *English*; EDWARD BENJAMIN KREHBIEL, Ph.D., *History*; GORDON JENNINGS LAING, Ph.D., *Classical Philology*; FELIX LAMOND, *Music*; AZUBAH JULIA LATHAM, A.B., *Oral English*; HELEN LATHAM, *Music*; CECIL FAIRFIELD LAVELL, Ph.D., *History of Education*; ANGELO LIPARI, *Romance Languages*; ARTHUR LIVINGSTON, Ph.D., *Romance Languages*; LOUIS AUGUSTE LOISEAUX, *Romance Languages*; EDWARD CRANE LYON, JR., M.D., *Obstetrics*; WILLIAM H. MCCASTLINE, M.D., *Physical Education*; ROSWELL CHENEY MCCREA, Ph.D., *Economics*; ELLEN BEERS MCGOWAN, B.S., *Household Arts*; JOHN ALOYSIUS MCKINLEY, *Industrial Arts*; FRANK MORTON MCMURRY, Ph.D., *Elementary Education*; JAMES HOWARD MCGREGOR, Ph.D., *Zoölogy*; JAMES MACLAY, Ph.D., *Mathematics*; GRACE HARRIET MACURDY, Ph.D., *Greek*; MELINDA I.

MANCHESTER, B.S., *Household Arts*; MAUD MARCH, *Physical Education*; CHARLES J. MARTIN, *Industrial Arts and Fine Arts*; JAMES FREDERICK MASON, Ph.D., *Romance Languages*; RALPH EDWARD MAYER, C.E., *Mechanical Drawing*; ABBY SHAW MAYHEW, *Physical Education*; FLOYD J. METZGER, Ph.D., *Chemistry*; JAMES ALEXANDER MILLER, M.D., *Medical Diagnosis*; PAUL MONROE, Ph.D., *History of Education*; WILLIAM PEPPERELL MONTAGUE, Ph.D., *Philosophy*; ANNIE E. MOORE, B.S., *Elementary Education*; FRANK GARDNER MOORE, Ph.D., *Latin*; WILLIAM CABLER MOORE, Ph.D., *Chemistry*; WILLIAM UNDERHILL MOORE, A.M., *Law*; JOHN HAROLD MORECROFT, E.E., *Electrical Engineering*; J. LIVINGSTON R. MORGAN, Ph.D., *Chemistry*; O. S. MORGAN, Ph.D., *Agriculture*; LEIGHTON B. MORSE, Ph.D., *Physics*; ALFRED J. MOSES, Ph.D., *Mineralogy*; ISADORE J. MUDGE, Ph.B., B.L.S., *Library Economy*; JOHN M. NELSON, Ph.D., *Chemistry*; WILLIAM NOYES, A.M., *Industrial Arts*; HARRY OHLSON, *Physical Education*; SUSAN F. PEARCE, *Household Arts*; HENRY CARR PEARSON, A.B., *Elementary Education*; WALTER BOWERS PILLSBURY, Ph.D., *Psychology*; EDWARD CHAPPELL PORTER, A.B., *English*; ALLEN WILSON PORTERFIELD, Ph.D., *German*; THOMAS REED POWELL, A.B., *Law*; HARRY WILFRED REDDICK, Ph.D., *Mathematics*; JOHN FRANKLIN REIGART, Ph.D., *Elementary Education*; ARTHUR FRANK JOSEPH REMY, Ph.D., *German*; RACHEL T. RICHARDSON, *Industrial Arts*; MARY D. SWARTZ ROSE, Ph.D., *Household Arts*; JOHN ROSE, *Industrial Arts*; W. H. D. ROUSE, Litt.D., *Latin*; HENRY ALFORD RUGER, Ph.D., *Educational Psychology*; EDWARD M. SAIT, Ph.D., *Politics*; FRANK C. SCHROEDER, C.E., *Mechanics*; HENRY H. L. SCHULZE, A.M., *German*; ROBERT LIVINGSTON SCHUYLER, Ph.D., *History*; W. D. SCOTT, *Educational Psychology*; EMILY C. SEAMAN, B.S., *Household Arts*; CARL EMIL SEASHORE, Ph.D., *Psychology*; WILLARD LESLY SEVERINGHAUS, A.M., *Physics*; MARY L. SHAFER, *Household Arts*; BERTHA E. SHAPLEIGH, *Household Arts*; HENRY CLAPP SHERMAN, Ph.D., *Chemistry*; STUART P. SHERMAN, Ph.D., *English*; LEWIS PARKER SICELOFF, *Mathematics*; HENRY AUGUSTUS SILL, Ph.D., *History*; RUTH PENFIELD SILL, *Household Arts*; STELLA SKINNER, *Household Arts*; CHARLES CONRAD SLEFFEL, *Industrial Arts*; DELOSS SMITH, *Music*; LUCIAN E. SMITH, B.S., *Architecture*; STEVENSON SMITH, Ph.D., *Educational Psychology*; CAROLINE E. STACKPOLE, B.S., *Biology*; ISABEL STEVENS, *Physical Education*; ROMIETT STEVENS, Ph.D., *Secondary Education*; GEORGE DRAYTON STRAYER, Ph.D., *Educational Administration*; ANN GILCHTRIST STRONG, *Household Arts*; KARL STRUSS, *Industrial Arts*; EDGAR HOWARD STURTEVANT, Ph.D., *Classical Philology*; HENRY SUZZALLO, Ph.D., *Philosophy of Education*; EDWARD LEE THORNDIKE, Ph.D., *Educational Psychology*; EVELYN SMITH YOBAY, B.S., *Household Arts*; FREDERICK TUPPER, JR., Ph.D., *English*; MAY B. VAN ARSDALE, B.S., *Household Arts*; KARL MAX VOGEL, M.D., *Clinical Pathology*; CAMILLO VON KLENZE, Ph.D., *German*; HERMAN T. VULTE, Ph.D., *Household Arts*; AUGUSTUS BALDWIN WADS-

WORTH, M.D., *Bacteriology*; CHARLOTTE A. WAITE, B.S., *Household Arts*; JOHN JAY WALSH, *Industrial Arts*; GILBERT OAKLEY WARD, A.B., *Library Economy*; CHARLES DIGBY WARDLAW, A.B., *Physical Education*; CHARLES P. WARREN, Ph.B., *Architecture*; HENRY BRADFORD WASHBURN, B.D., *Religion*; ULYSSES G. WEATHERLY, Ph.D., *Sociology*; CHARLES WILLIAM WEICK, B.S., *Industrial Arts*; BESSIE SCOTT WHITE, *Household Arts*; MARY THEODORA WHITLEY, Ph.D., *Educational Psychology*; HORATIO BURT WILLIAMS, M.D., *Physiology*; JESSE F. WILLIAMS, A.B., *Physical Education*; J. PAUL J. WILLIAMS, C.E., *Civil Engineering*; ROLAND HUGH WILLIAMS, A.M., *Physical Science*; EVA WILSON, *Household Arts*; FRANCIS CARTER WOOD, M.D., *Clinical Pathology*; IRVING FRANCIS WOOD, Ph.D., *Philosophy and History of Religion*; ERNEST HUNTER WRIGHT, Ph.D., *English*; THEODORE ETHEL WYE, B.S., *Classical Philology*; B. E. YOUNG, A.M., *Romance Languages*.

#### Assistants

EDGAR R. ALTENBURG, *Zoölogy*; EMMA BAKER, *Household Administration*; GRACE V. BLISS, *Fine Arts*; O. C. BOWES, *Agriculture*; CHARLES G. BURD, *English*; I. L. BROOKMYER, *Chemistry*; A. W. BUSWELL, *Chemistry*; BLANCHE E. CAMPBELL, *Critic Teacher*; HARRIET Z. CAMPBELL, *Critic Teacher*; ROLLIN L. CHARLES, *Physics*; GENEVIEVE L. COY, *Educational Psychology*; JOHN FREDERICK DASHIELL, *Philosophy*; ROLLIN COLGROVE DEAN, *Zoölogy*; HARRIET FOX, *English*; DONALD GORDON, *Physiology*; JOSEPH CROSS, *Household Arts*; P. C. HAESELER, *Chemistry*; WILLIAM E. HARNED, *Stenography*; MARY E. HARWOOD, *Classical Philology*; JULIAN C. HINES, *Physics*; ELIZABETH HOFFLIN, *Household Arts*; BESSIE F. HOLMAN, *Household Arts*; MERLE M. HOOVER, *English*; RUTH A. JOHNSON, *Household Arts*; BENJAMIN B. KENDRICK, *History*; SARA L. KELLOG, *Library Economy*; ANNA F. MAGEE, *Critic Teacher*; ROBERT F. MCCrackEN, *Chemistry*; CHARLES CRAIG MOOK, *Geology*; ANNA F. MORSE, *Critic Teacher*; WILLIAM S. NELMS, *Physics*; MARJORIE O'CONNELL, *Geology*; ALICE M. PAINE, *Critic Teacher*; FRANK PANUSKA, *Drawing and Design*; B. F. PHILLIPSON, *Chemistry*; A. T. POFFENBERGER, JR., *Psychology*; P. W. PUNNETT, *Chemistry*; EDITH RAGAN, *Critic Teacher*; S. H. REGISTER, *Chemistry*; LOUISA R. SCHROEDER, *History of Education*; MATILDA SCHROEDER, *Household Arts*; BLANCHE SHAFFER, *Household Arts*; H. N. SHENTON, *Sociology*; CAROLINE V. SANAMON, *Elementary Education*; CLAYTON S. SMITH, *Physiological Chemistry*; ROXANA A. STEELE, *Critic Teacher*; WILLIAM W. STIFLER, *Physics*; WILLIAM K. TERRIBERRY, *Physiology*; ELDON LEONARD USRY, *Elementary Education*; RUTH WATSON, *Household Arts*; GEORGE F. WHICHER, *English*; MARY FLORENCE WILSON, *Library Economy*; JOHN KIRTLAND WRIGHT, *Geography*.



*In Charge of Excursions*, LEONIDAS WAKEFIELD CRAWFORD, A.M.  
*Conductor of University Chorus*, WALTER HENRY HALL  
*Organist*, WILLIAM J. KRAFT  
*Social Director, Teachers College*, LUCETTA DANIELL  
*Assistant Social Director*, MRS. WILLIAM H. KILPATRICK  
*Social Director, Brooks Hall*, GRACE HARRIET MACURDY

## SUMMARY

I. Non-matriculated .....	1943
II. Matriculated:	
1. Columbia College.....	139
2. Barnard College.....	52
3. Mines, Engineering and Chemistry.....	129
4. Law.....	56
5. Medicine.....	7
6. Fine Arts.....	11
7. Political Science.....	93
8. Philosophy*.....	542
9. Pure Science.....	96
10. Teachers College.....	534
	<hr/>
	3602

\* Including 302 students with education as a major subject and registered under the Faculty of Philosophy through Teachers College.

## GENERAL STATEMENT

The twelfth Summer Session of the University opened July 8, 1912, and closed August 16. The registration days for the Summer Session were July 5 and 6. Examinations for certificates were held on August 16.

Courses were offered to men and women on equal terms, in agriculture, anthropology, architecture, assaying, astronomy, biology, bookkeeping, botany, chemistry, corporation finance, domestic art, domestic science, economics, education, engineering, English, fine arts, freehand drawing, French, geography, geology, German, Greek, history, history of religion, household arts, industrial arts, Italian, kindergarten, Latin, law, library economy, manual training, mathematics, mechanical drawing, mechanics, medicine, metallurgy, mineralogy, music, philosophy, photography, physical education, physical geography, physics, physiology, politics, psychology, public speaking and oral reading, religion, Romance languages, sociology, Spanish, stenography and typewriting, and zoölogy.

Each course consisted of thirty-one lectures or other exercises, or their equivalent in laboratory or field work. Credit for such courses in the Summer Session as are accepted by the several Faculties of the University



in partial fulfilment of the requirements for degrees, or for diplomas in teaching is given upon the satisfactory completion of the course, including the final examination.

### Fees

(See page 41)

The tuition fee for the Summer Session is \$30, which covers courses of instruction aggregating six points credit, the normal limit allowed by the regulations.

For the *Announcement* of the Summer Session of 1913, which will open July 7 and offer a wide range of courses, or for information regarding dormitory accommodations, or board and lodging, address the Secretary of Columbia University, New York.

### Registration, Session of 1912

Copies of the separately printed *Directory of the Summer Session, 1912*, may be had upon application to the Secretary of the University. In this catalogue, at the close of the Register of Students under each Faculty, will be found a list of the Summer Session students of 1912 who matriculated under that Faculty, but who did not return to register in September.

## EXTENSION TEACHING, 1912-13

### Officers of Instruction

*Instructors*—E. E. AGGER, L. H. ALEXANDER, N. ALTSHILLER, B. M. ANDERSON, JR., M. G. BACH, R. F. BACH, J. E. BEANS, A. O. BECHERT, F. R. BEYGRAU, D. BIGONGIARI, O. C. BOWES, D. E. BOYCE, W. A. BRAUN, G. M. BRETT, H. C. BROWN, C. H. BURNSIDE, L. P. CALLAN, R. E. CHADDOCK, Miss G. L. COOK, W. F. COOLEY, C. COPELAND, L. COVELLO, R. D. CURRIER, A. J. CROSS, C. C. CURTIS, C. A. DARLING, M. J. DAVIES, F. B. DOW, D. B. DUNCAN, W. O. FARNSWORTH, H. W. FARWELL, J. K. FINCH, H. L. FISHER, C. FONTAINE, E. J. FORTIER, D. R. FOX, J. C. FRAZEE, F. D. FROMME, C. R. GASTON, J. L. GERIG, H. H. GODDARD, L. GORDON, J. G. GREEN, R. GUERNSEY, R. M. HAIG, W. H. HALL, E. M. HALLIDAY, W. HALLOCK, C. M. HAMILTON, C. A. HARRIMAN, T. H. HARRINGTON, E. F. HAUCH, F. W. HEHRE, F. W. J. HEUSER, M. B. HILLEGAS, G. HINDERMYER, F. F. HINTZE, R. M. HODGE, H. L. HOLLINGWORTH, E. F. HUMPHREY, L. IMBERT, J. W. INGLE, JR., E. T. KENNEDY, S. B. KOOPMAN, W. J. KRAFT, F. LAMOND, W. K. LANE, A. A. LIVINGSTON, L. A. LOISEAUX, E. MARGOLIS, C. E. MATHER, C. T. MCFARLANE, J. H. MCGREGOR, F. J. McMACKIN, D. H. MILES, W. MILWITZKY, T. C. MITCHILL, R. H. MONTGOMERY, W. C. MOORE, O. S. MORGAN, T. MUIVHEID, H. F. MULLER, G. W. MULLINS, D. S. MUZZEY, A. C. NEISH,

J. W. NICHOLS, Miss M. O'CONNELL, H. V. E. PALMBLAD, F. A. PATTERSON, C. A. PFEIFFER, H. POTTER, F. B. ROBINSON, A. F. ROSS, H. H. L. SCHULZE, R. L. SCHUYLER, H. N. SHENTON, J. T. SHOTWELL, C. G. SIMPSON, E. R. SMITH, Miss A. SNYDER, H. R. STEEVES, W. S. STEVENS, W. W. STIFLER, E. K. STRONG, JR., E. P. TANNER, A. TASSIN, R. TAYLOR, E. THARP, S. M. TUCKER, M. H. TURK, C. VAN DOREN, T. W. VENESS, C. P. WARREN, G. WEEMAN, L. WELZMILLER, F. P. WHITAKER, H. L. WHITTE-MORE, Miss A. T. WHYTE, S. L. WOLFF, F. A. WOLL, Miss T. W. WYE.

### GENERAL STATEMENT

The statutes of the University define Extension Teaching as instruction given by University officers and under the administrative supervision and control of the University, either away from the University buildings or at the University, for the benefit of students unable to attend the regular courses of instruction.

#### Students

Courses in Extension Teaching are planned for two classes of students—*first*, men and women who can give only a portion of their time to study and who desire to pursue subjects included in a liberal education of the character and grade of a college or professional school, but without any reference to an academic degree—*second*, those who look forward to qualifying themselves to obtain in the future academic recognition, involving acceptance of the work which they may satisfactorily complete in Extension Teaching.

Students who are duly admitted to Extension courses but are not candidates for a degree or diploma are termed *non-matriculated* students. Students who have completed the requirements for admission and have been formally admitted by or in behalf of the Faculty concerned as candidates for a degree or diploma are termed *matriculated* students.

#### Courses of Instruction

Under the direction of the University Council courses are offered in Extension Teaching which count toward the degree of Master of Arts.

Regular courses of instruction are offered in Extension Teaching which in many instances are coördinated so as to form at least the first year of collegiate and professional work, thus providing in the evening at Morningside Heights, and elsewhere, courses in subjects which are generally offered in the Freshman and Sophomore years of college, so that students may qualify themselves for admission with advanced standing to Columbia College and Barnard College as candidates for the degrees of A.B. and B.S.

There are also offered at Morningside Heights in the evening subjects which are given in the Schools of Mines, Engineering and Chemistry, so that a student may pursue some special line of scientific study or prepare

himself for the second or third year in these schools. After 1914 courses in these schools will be open only to those who have had a preliminary course of three years in Columbia College or the equivalent.

Evening courses are offered in architecture at Morningside Heights which correspond to the courses of the Columbia University School of Architecture.

Evening courses in commerce and finance, forming the first two years of a three-year course leading to a certificate in commerce and preparing for the State examination for the certificate of Certified Public Accountant, will be given at Morningside Heights and elsewhere.

A series of courses intended to equip students for the position of secretary is also offered. The completion of these courses will require three years for high school graduates and at least one year for college graduates.

Many courses are offered which aid a student to prepare for the Schools of Law, Medicine and Journalism or to complete his preparation for Columbia College or for the scientific schools.

A two years' course in practical optics is offered in coöperation with the Department of Physics for the special training of those who expect to become optometrists.

Courses are offered in agriculture for those who desire special work in that subject.

A large number of other courses in varied subjects is given late in the afternoon and on Saturday which repeat those in liberal studies offered in the Colleges of the University. These are given in the same manner and often by the same instructors as the regular courses. In many instances university credit is granted.

Numerous courses are given at various centres. These are either regular courses of collegiate grade or those preliminary thereto. Lecture courses arranged in groups of six lectures are given in different centres.

Lecture-study courses in certain subjects forming thirty lectures alternating with quiz or conference hours are given at Morningside Heights and at centres when requested.

Centres for the study of choral music are maintained at Morningside Heights, Brooklyn and Yonkers, and choral concerts are offered during the year.

#### Registration

Students who expect to attend at Morningside Heights are required to register at the office of the Registrar, 201 East Hall, 116th Street and Amsterdam Avenue. A student in Extension Teaching will register for one half-year and is required to renew his registration in person at the beginning of the second half-year.

Matriculated students in the various schools of the University will be allowed to attend courses in Extension Teaching in accordance with the regulations of the several schools; they must, however, register and pay

the fees in the same way as other students in Extension courses. Matriculated students will be required to take at least one course of three hours, or two courses of one and one-half hours per week, but cannot exceed two periods of classroom work or four hours of laboratory work per day.

#### Fees for Extension Courses

All students, matriculated or non-matriculated, admitted to Extension courses, must pay at the time of registration the fees determined by the Administrative Board. The fees for Extension courses are determined as a rule at the rate of \$5 per point, i. e., for one hour per week of classroom work, or two hours of laboratory or drawing-room work, through a half-year. All students must pay a registration fee of \$5.00, which is payable but once in the University. Students taking six points each half-year have the privileges of the library, and, in the case of men students, the dormitories and gymnasium.

Courses in Extension Teaching, approved by the Committees on Instruction in Columbia College and Barnard, College are credited for matriculated students toward the degrees of A.B. and B.S., toward the degree of B.S. and the diplomas in Teachers College, and toward degrees in other professional schools in accordance with the regulations established by the various faculties.

Courses in Extension Teaching, approved by the Executive Committee of the University Council, will count toward the degree of Master of Arts.

#### Admission to Extension Courses

No examination is required for admission to courses offered in Extension Teaching but students must satisfy the Administrative Board that they can pursue the courses with advantage. It is expected that the prospective students in all collegiate and professional courses shall have had a full secondary school education. The courses are open, unless it is otherwise stated, both to men and women.

#### Location of Extension Courses

Collegiate and professional courses will be given at Columbia University; at 33 East Park Street, Newark, N. J.; in the Prospect Heights School, 51 Seventh Avenue, Brooklyn; in the Carroll-Robbins High School, Trenton, N. J.; Lafayette High School, Buffalo, N. Y.; and wherever classes of sufficient numbers may be gathered.

For detailed information as to the places and hours for these courses, both at the University and at the several local centres, the qualifications for admission, the regulations for registration, candidacy for degrees, diplomas, attendance, and examinations, the fees prescribed, and for a statement of each course offered, see the *Announcement of Extension Teaching, 1912-13*, which may be obtained without charge upon application to the Secretary of the University.



## DEGREES CONFERRED DURING 1911-12

Degrees are conferred at the October and February meetings of the  
University Council and on Commencement Day.  
See the Academic Calendar.

### COLUMBIA COLLEGE

#### Bachelor of Arts

MICHAEL ADELSTEIN (October 2)	MARK MCKENDREE HORTON
WILLIAM DANIEL AHEARN	HORACE HOLMES HUNT
JAMES BURKE ALLEY	ALFRED HERBERT IAASON
FRANCIS TUTTLE ARMSTRONG	ORRIN CASTLE ISBELL
DUDLEY JEROME BACHRACH	SAMUEL LIPSTADT JACKSON
WILLIAM BANCERK BAILEY	LUTHER HENRY KETELS
WALTER ERNEST BAKER	ALFRED ABRAHAM KNOPF (February 12)
JAMES THOM BEARD, JR.	EGMONT FRANCIS KOENIG
BENJAMIN BERNSTEIN	JOSEPH RIGGS LAMONT (February 12)
RANDOLPH SILLIMAN BOURNE	JOSEPH LEVY
ROBERT CARL BRANDT (October 2)	WILLIAM BAYARD LONG
ARTHUR BEARNS BRENNER	(February 3, 1908)
(February 12)	CHESTER LUHMAN
ISIDOR CHERNIAC BRILL	RICHARD JOSEPH MACKEY
EDWARD VINCENT BRODERICK	ARTHUR WHITTIER MACMAHON
(February 12)	With high honors in History and German
EDWARD JOHN BULLWINKEL	CLARENCE AUGUSTUS MANNING
JULIUS VICTOR BUNZL	With highest honors in Greek, Latin and German
HAROLD AUGUSTIN CALAHAN	GEORGE LANE MAURER
LEWIS AUGUSTUS COFFIN, JR.	MAX DAVID MAYBR
WILLIAM COLEMAN	CHARLES JAMES WILLIAM MEISEL
JOSEPH ALOYSIUS CONWAY	(October 2)
FREDERICK CULMAN	CHARLES HARRISON MEYER
GILBERT STERLING BANCROFT DARLINGTON	HERBERT MINSKY (February 12)
(February 12)	ALEXANDER PARKS MOORE
AUSLEY GEORGE DAVIS	HENRY HAROLD NORDLINGER
NORMAN MCLEOD DINGMAN	EDMOND O'FLANAGAN
LEONARD DINKELSPIEL	THOMAS FRANCIS O'SULLIVAN
RUSSELL ARNOLD FAIRBAIRN	(February 12)
AVELINO VICENTE FERREIRA (October 2)	EUGENE HIRAM PADDOCK, JR.
EMANUEL M. FLEISCHER (October 2)	(February 12)
LAWRENCE KELSO FRANK	JOSEPH HENDERSHOT PARK
JULIUS FREDERICK FRIES	RICHARD HENRY PAYNTER, 3rd
WILLIAM ALEXANDER GRAY	(February 12)
JAMES HENRY HENLE (February 12)	JOHN MICHAEL PITTARO (October 2)
DAVID MELVILLE HEYMAN	FITZ JOHN PORTER
FREDERIC WILLIAM HINKRICH, JR.	
(June 11, 1902)	



CLAUS CARL HERRMANN PROX  
 JOHN WILLIAM PULLEY  
 HENRY SIGMUND RADE  
 ROBERT JESSE REYNOLDS  
 GUY HUGHES RIEGEL  
 FRANKLIN WILLARD BURNETT ROBINSON  
 BENJAMIN ROTHENBERG  
 AUSTIN SHERWOOD ROTHWELL  
 THEODORE MICHAEL SANDERS  
 WILLIAM VOGEL SAXE  
 GEORGE KENNER SCRATCHLEY  
 LAMBERT ARMOUR SHEARS  
 WILLIAM ERNEST SHREWSBURY  
 WILLIAM STANLEY SIEMON  
 WILLIAM PHILIP SMALE, JR.  
 ALBERT LEE SMALLHEISER  
 [94]

AUGUSTUS CARL SMITH, JR.  
 ALLAN PAUL SPRINGER  
 HARRY FISHER STANDERWICK, JR.  
 (October 2)  
 WILBUR WATKINS STEARNS  
 LLOYD STICKLES (October 2)  
 ALFRED HENRY STURTEVANT  
 (February 12)  
 JOSEPH WARD SWAIN  
 EDWARD SCOTT SWAZEY  
 LEWIS KELMOND THURLOW, JR.  
 RUFUS JAMES TRIMBLE  
 THOMAS HENDERSON WATSON, JR.  
 JOHN DAVIDSON WIMMER (February 12)  
 MORRIS WOLF  
 MILES LOWELL YATES  
 RALPH HOWARD YOUNG

### Bachelor of Science

WILLIAM LEWIS BANTON  
 ALFRED BERNSTEIN  
 ERNEST BOSCH  
 CALVIN BLACKMAN BRIDGES  
 With highest honors in Botany,  
 Chemistry and Zoölogy  
 ABBOTT CARSON COMBES, JR. (October 2)  
 HILARY EARL CORWIN  
 ARTHUR ROLAND CUMMINGS  
 HENRY WOLFGANG ELSASSER  
 DJEVAD EYOUB  
 CHARLES THORNE FAAS  
 FRANK LATHROP FINLAYSON  
 EDWARD EUGENE FISHER  
 HENRY SAMUEL GERSTLE  
 WILLIAM RANALD GRUNOW  
 SIEGFRIED H. HARTIG  
 LOUIS JUDSON HIRSHLEIFER  
 JOHN MICHAEL HOLZWORTH  
 RALPH WILLIAMS HOWELL  
 CHEN-HUA HUANG  
 ROSCOE CUNNINGHAM INGALLS  
 PASCAL IRVING JOSEPH (February 12)  
 JAMES TAYLOR KEMP  
 NICHOLAS KOPELOFF (February 12)  
 IRVING KUNZMAN  
 YAN CHO KWAN  
 NATHAN H. LEVINSON  
 JOSEPH LIFF  
 HARRY LEON LOBSENZ  
 CARLOS KELLY McCLATCHY  
 [58]

FRANK JOSEPH McMACKIN  
 JAMES HANDFORTH MACKINTOSH  
 TAUFIK MUFARRIJ  
 JAMES HENRY MULLEN (October 2)  
 JAROSLAV VICTOR NIGRIN (October 2)  
 JOHN HOWARD NORTHROP  
 KENNETH BERKLEY NORTON  
 CHARLES WILLIAM PERSON  
 ANDREW PETERS, JR.  
 ALFRED LEIGH PITTS  
 GEORGE WEEKS POLHEMUS  
 WARNER CHARLES PYNE  
 CHARLES ROGOW  
 VINCENT HAROLD ROTHWELL  
 (February 12)  
 SAMUEL EZEKIEL SACHS  
 DAVID SAPIRO  
 ORVILLE EDGAR SCHUBERT (October 2)  
 SOLOMON SELIG  
 ALBERT LEON SIFF  
 PRESTON WILLIAM SLOSSON  
 With highest honors in Chemistry,  
 English Literature and History  
 ALLAN HAMILTON SMITH  
 WESLEY LOTT SMITH  
 BENJAMIN BERGEN STRANG  
 DIEDERICK HANFELD WARD (October 2)  
 BACHE McEVERS WHITLOCK  
 CAROLUS SYLVESTER WOODWELL  
 DAVID HOWARD YOUNGER  
 CHAN YEW YUNG  
 HAROLD PINDAR ZOLLER

## BARNARD COLLEGE

## Bachelor of Arts

MARGARET AVERY AUGUR  
 MABEL BARRETT  
 GEORGINA BERRIAN  
 SARA LILIAN BLUMGARTEN  
 EDNA BOOTH  
 GERTRUDE SERAPHINE BORCHARDT  
 BESSIE BUNZEL  
 HAZEL BURKHOLDER  
 RUTH CARROLL (October 2)  
 GEORGIA ANGELA CEROW  
 AGNES YOUNG CLARK  
 MARY SYLVESTER CONROY  
 MOLLY BROOKE TEMPLE COYLE  
 GERTRUDE CECILIA CUSACK  
 EDITH MAY DEACON  
 MARY VICTORIA DIEHL  
 MILDRED DODGE  
 ELEANOR MANDEVILLE DOTY  
 MARTHA EMMONS  
 ALICE BELTON EVANS  
 ETHEL LOUISE FELCH (February 6)  
 REBECCA VIOLA FISCHER  
 GRACE MARION FISCHER  
 MARY LOUISE FITZ  
 HENRINE BROWN FITZGERALD  
 ELINOR FRANKLIN  
 PENELOPE MORGAN GIRDNER  
 SHIRLEY GLEASON  
 IRENE LOUISE GLENN  
 ELIZABETH PERINE GRAY  
 KATHLEEN FRANCES GRAY  
 GRACE BARRINGTON GREEN  
 AGNES DOROTHY ELIZABETH GRIFFIN  
 RUTH ALLINE GUY  
 ANNA COBB HALLOCK  
 MILDRED VALENTINE HAMBURGER  
 EDITH FRANCES HARDY  
 FLORENCE LOUISE HAZEL  
 MARION HEILPRIN  
 ELSA MARIAN HELLER  
 MILDRED LIVINGSTON HODGES  
 PHEBE EDITH HOFFMAN (February 6)  
 ELVA DAWSON HOOVER  
 ERNESTINE CHARLOTTE ISABEL  
 IRENE GRACE JOHNSON  
 ELIZABETH TOMPKINS JONES  
 CAROLINE KAHN  
 IRENE DOLORES KEENAN  
 ETHEL MAY KEMPTON (February 6)  
 ISABEL GLEN KOSS

MARGARET KUTNER  
 PAULA CLAIRE LAMBERT (February 6)  
 LUCY EMILIE LANDRU  
 FRANCES RENSHAW LATZKE  
 IRENE ELEANOR LONDON  
 MARY AMANDA LOUGHREN  
 FLORENCE DE LOISELLE LOWTHER  
 ISABEL MCKENZIE  
 LILLIAN ALMA MACDONALD  
 JENNIE KING MACKAY (October 2)  
 DOROTHEA HELEN MAHON  
 ALICE CRAIGE MARTIN (February 6)  
 ELEANOR ALLISON MATHEWS  
 ELSA SAUTER MEHLER  
 ALMA IDA MISCH  
 LUCILE MORDECAI  
 ISABELLE MORRISON  
 MARY MULQUEEN  
 ELEANORE MYERS  
 MARGARET NAUMBURG  
 ISABELLE FLEMMING NOYES  
 LOUISE NYITRAY  
 MARJORIE O'CONNELL (October 2)  
 MARGARET O'ROURKE  
 PAULA FRIDA OELLRICH (February 6)  
 PAMELA POOR  
 ELIZABETH PERKINS READY  
 ELIZABETH REARDON  
 FLORENCE DU BOIS REES  
 VERA MARGUERITE REES  
 CLARE HILDEGARDE REESE  
 FRANCES ELIZABETH ROGERS  
 GRACE JOSEPHINE ROGERS  
 HESTER MARY RUSK  
 ETTA MAY SCHWEIS  
 MARY PYNE SCULLY  
 GLADYS RENSHAW SEGEE  
 PHILADELPHIA MASTERS SHARP  
 GRACE MARY SHAW (October 2)  
 MARY BRAMAN SHAW (February 6)  
 DORIS MARGUERITE SHELLEY  
 LILA MARJORIE SHERIN  
 CONSTANCE SHOOK  
 ABBIE SMITH  
 VIRGINIA SMITH  
 MARGARET SOUTHERTON  
 DOROTHY ALICE SPEAR (February 6)  
 ELIZABETH MYRES STACK  
 BEATRICE CLARA STEGMAN  
 CORA RHODE THEES

RUBERTA THOMPSON  
EDITH MOORE VALET (February 6)  
FLORENCE VAN VRANKEN  
CONSTANCE WILLIAM VON WAHL  
CATHERINE MARGARETTA WALTHER  
AMY WEAVER  
LUCILLE WEIL

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MARY ELIZABETH WHELAN  
ANNIE STAVELY WILSON  
MARION WOLFF  
MARGARET ELOISE MACDONALD WOOD  
JENNIE ESTELLE WOODRUFF  
ELSA PAULINE WUNDERLICH  
EDNA EBERLY ZIEGLER

## Bachelor of Science

LENA COHEN  
FRIEDELIN CATHARINE JUD (February 6)  
[4]

ESTHER LEWONTIN  
ETHEL SCARLETT RICHARDSON

## Bachelor of Laws

ARTHUR DOUGLAS ALEXANDER, A.B.  
PAUL SHIPMAN ANDREWS, A.B.  
BENJAMIN BERINSTEIN, A.B.  
PAUL JARED BICKEL, A.B.  
PAUL DAVID BIEBER, B.S.  
MASON HUNTINGTON BIGELOW, A.B.  
PELHAM ST. GEORGE BISSELL, JR., A.B.,  
A.M.  
ISIDOR BLUM, A.B.  
WILLIAM CRAIN BOWERS, 2nd  
MORTIMER BRENNER, A.B.  
ARTHUR E. BRISTOL, A.B.  
JAMES EARLE BUTTS, A.B.  
CARL ROBERT BYOIR, A.B.  
ROY ROBERT CAHILL, B.S.  
DOYLE E. CARLTON, A.B.  
GEORGE OLIVER CASTELL, A.B.  
EMANUEL CELLER, A.B.  
MAXWELL CIVIC, B.S.  
JOSEPH GEORGE COHEN, B.S.  
ROBERT EARL COULSON, A.B.

(February 12)

ROGER FERNANDEZ CRIADO, A.B.  
FRANK LOUGHRAN CUNNINGHAM, A.B.  
LEONARD HAROLD DAVIDOW, B.S., A.M.  
FRED V. DELAVINA, A.B.  
GEORGE B. DE LUCA, B.S.  
JAMES LLOYD DERBY, A.B.  
NOEL T. DOWLING, A.B., A.M.  
WILLIAM KENT DUPRE, JR., A.B.  
EDMUND LAWRENCE DURKIN

(February 12)

DONALD F. ELLIOTT, A.B.  
FREDERICK R. ELSASSER, A.B.  
HAROLD BROWN EMERSON, Ph.B.  
ALBERT EPSTEIN, A.B.  
ROBERT FERRARI (October 2)  
HENRY CROMWELL FIELD, A.B.

BRENTON KERN FISK, A.B.  
ALLEN BROWN FLOUTON, A.B.  
ERNEST VIVIAN FRERICH, A.B.  
RALPH ABERNETHY GAMBLE, Litt.B.  
FRANCIS J. GARCIA, A.B.  
NATHAN FLOWER GEORGE, A.B.  
LEON WELLS GIBSON, A.B.  
DAWSON COLEMAN GLOVER, A.B.  
HAROLD GODDARD  
SYDNEY LION GOODMAN, A.B.  
DAVID FRANKLIN GOODNOW, A.B.  
EDWARD NUTE GOODWIN, A.B.  
GEORGE ANDERSON GORDON, A.B.  
IRVING GORDON, A.B.  
LAWRENCE SAMUEL GREENBAUM, A.B.  
THOMAS PATRICK HANAGAN, A.B.  
RICHARD HARTSHORNE, Litt.B.  
WILLIAM HENRY HARTZELL, JR., A.B.  
JOHN VANCE HEWITT, A.B.  
WILBUR MORTON HOWENSTEIN, A.B.,  
A.M.

TOM C. JOHNSON, JR., A.B.  
ELIAS RAAS KAUFMAN, A.B., A.M.  
WINTHROP HUNTINGTON KELLOGG, A.B.  
GEORGE WALTER KESSLER, A.B.  
LEONARD KLEIN, A.B.  
BRIDGEWATER MEREDITH LANGSTAFF,

(June 7, 1911)

MYRON LAWRENCE LESSER, B.S.  
JULIAN ARTHUR LEVE, B.S.  
JOHN MARSHALL LOWRIE, A.B.  
GEORGE PLEASANTS LYNDE, A.B.  
HAROLD ORLANDO McLAIN, A.B.  
ROBERT VINCENT MAHON, A.B.  
HAROLD RAYMOND MEDINA, A.B.  
CLARENCE FUSON MERRELL, A.B.  
JEROME MICHAEL, A.B.  
CARLO SUTRO MORBIO, B.L.

EUGENE FREDERIC MOSES, A.B.  
 DEACON MURPHY, A.B.  
 FRANCIS ELY NORRIS, A.B.  
 DELBERT AUSTIN NORTON, A.B.  
 CHARLES JOSEPH NOURSE, A.B.  
 ALFRED OGDEN, A.B.  
 EARL WILLIAM OSBORNE, A.B.  
 EDGAR HOWARD OSTERHOUT, A.B.  
 EDWARD NEWTON PERKINS  
 R. STUYVESANT PIERREPONT, A.B.  
 EDGAR ALLEN POLLACK, A.B.  
 EUGENE D. PRESTON, A.B.  
 DORR CLENDENIN PRICE, A.B.  
 FRANCIS KETCHAM RAYNOR, A.B.  
 HAMILTON WHITNEY ROBINSON, Litt.B.  
 LOUIS HARRY ROBINSON, A.B.  
 N. OTIS ROCKWOOD, A.B.  
 JOHN CARFIELD SANBORN, A.B.  
 (February 12)  
 HOWARD A. SCHOLLE, A.B.  
 ROBERT PAUL SCHUR, A.B.  
 ANDREW HORACE SCOTT, Litt.B.  
 HERMAN SILVERMAN, Ph.B. (October 2)  
 [116]

YOUNG BERRYMAN SMITH, B.S.  
 EVAN SHELBY STALLCUP  
 JAMES E. STERRITT, A.B.  
 EARL STEWART, A.B.  
 SANFORD DELWYN STOCKTON, JR., A.B.  
 HAROLD VAN VREDENBURGH STORY, A.B.  
 GEORGE WILFRED STUMBERG, A.B.  
 SAMUEL WILLIAM TANNENBAUM, A.B.  
 RAYMOND C. THOMPSON, B.S.  
 THOMAS FRANCIS THORNTON, A.B.  
 EDGAR MARK TROUTFELT, Ph.B.  
 JOHN CHRISTOPHER VON GLAHN, A.B.  
 HOWLAND OTTMANN WALTER, A.B.  
 HAROLD L. WARNER, A.B.  
 JOHN BIRCHARD WARNER, A.B.  
 (February 12)  
 FRANK BRISSSENDEN WASHBURN, A.B.  
 ARTHUR VIVIAN WATKINS  
 PAUL CHARLES WERNER, A.B.  
 KARL ERROLL WHITAKER, B.S., A.M.  
 PAUL WILLIAMS, A.B.  
 HARRY NATHANIEL WILSON, A.B.  
 ELI SAUL WOLBARST, B.S.  
 VIRGINIUS VICTOR ZIPRIS, B.S.

### Doctor of Medicine

WILLIAM BYRON AGAN  
 DONALD BUDD ARMSTRONG, Ph.B.  
 GREGORY ARONOWITZ  
 PAUL WILLIAM ASCHNER, A.B.  
 ELMER WAYNE BAKER, A.B.  
 PAUL SYDNEY BARRETT  
 DAVID BECK  
 FRANK WARNER BISHOP, B.S.  
 EDWARD BLEIER, B.S.  
 FRANK BORTONE  
 CHARLES JACOB BRIM  
 FRANK HOUGH CARBER  
 CHARLES STEPHEN BARTHOLOMEW CAS-  
 SARA, A.B.  
 CARL RODNEY COMSTOCK, A.B.  
 OGDEN FETHERS CONKEY, A.B.  
 FREDERICK STURGES COOPER, A.B.  
 CHARLES GEORGE CRANE, B.S.  
 WALTER RAYMOND CRANE, B.S.  
 CONDUCT WALKER CUTLER, JR., B.S.  
 EDWARD JOHN DAVIN, A.B.  
 WILLIAM SAMUEL DUBOFF  
 LEON GABRIEL FISHER  
 ISADOR HAROLD FRANKLIN  
 JOHN ANDREW GILDERSLEEVE, A.B.  
 SAMUEL GITLOW  
 SAMUEL GOLDMAN

LEIZER GRINBERG (October 16)  
 THEODORE HALPERN, A.B.  
 FRANCIS WENGER HEAGEY, A.B.  
 JAMES WORRALL HENRY, B.S.  
 HAROLD MANDEVILLE HERRING  
 DAVID LACY HIBBS, A.B.  
 FRANK MAHLON HOLCOMBE, A.B.  
 HUBERT SHATTUCK HOWE, A.M.  
 JOHN SHEPHERD IRVIN, A.B.  
 FRANCIS BATES JENNINGS, A.B.  
 HENRY LINCOLN JOHNSON  
 JOHN LEONARD KANTOR, A.B.  
 SIDNEY MILTON KATZ  
 GEORGE WILLIAM KEIL  
 ROBERT HAYWARD KENNEDY, A.B.  
 HENRY KLAUS  
 CHARLES WHITTEMORE KNAPP, A.B.  
 GEORGE CONDE LAWSING, A.B.  
 GILBERT CECIL LECHENGER  
 IRVING EDWARD LISS  
 ENRIQUE ALONSO LÓPEZ, B.S.  
 URIAH FRED MCCURDY, B.S.  
 EDWARD HUNTINGTON MCLEAN, A.B.  
 JAMES DOUGLAS LAURANCE MCPHEETERS,  
 A.B.  
 PERRY JEFFERSON MANHEIMS  
 ABRAHAM MENDELSON

FRANK REID MOUNT, A.B.  
 CLAY RAY MURRAY  
 HARRISON FREELING MURRAY  
 CHARLES HALPIN NAMMACK, A.B.  
 SIEGFRIED JOHANNES NILSON  
 JAMES ALOYSIUS O'REILLY  
 VINCENT LAWRENCE O'REILLY, A.B.  
 GEORGE GIRDWOOD PEARCE  
 OTTO CARL PICKHARDT, A.B.  
 WILLIS EUGENE RAGAN, JR., A.B.  
 ABRAHAM RAVICH, A.B.  
 HENRY ALSOP RILEY, A.B.  
 EDWARD JAMES ROGERS, B.S.  
 SAMUEL BERNARD ROSENZWEIG  
 CHARLES ROBERT SAWYER, Ph.B.  
 ALFRED ALEXANDER SCHWARTZ  
 VICTOR BAYARD SEIDLER

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SOLOMON SHLIMBUM  
 JAMES BUREN SIDBURY, A.B.  
 MORRIS THEODORE SIEGEL, B.S.  
 MORRIS L. SIMON  
 MARTIN DEFOREST SMITH, A.B.  
 FREDERICK CHARLES STEINMETZ, A.B.  
 ARTHUR PURDY STOUT, A.B.  
 LAURANCE MILLS THOMPSON, B.S.  
 HAROLD MURCHISON TOVELL  
 ABRAHAM UNGER, B.S.  
 EUGEN VAN KLEECK, A.B.  
 WEBB WILLIAM WEEKS, A.B.  
 WILLIAM CRAWFORD WHITE, B.S.  
 ARMITAGE WHITMAN, A.B.  
 HENRY VALENTINE WILDMAN, JR., A.B.  
 JOHN HERMAN WYLIE, A.B.  
 CARL COSSMAN YOUNT

### Engineer of Mines

JOHN COOKE BEAM, B.S.  
 PHILIP FRANK BECKER, B.S.  
 JAMES EVELAND BELL  
 THOMAS ELLIS BROWN, 3rd  
 EDGAR HAWLEY COOK  
 HARRY FORSYTH CORNWALL  
 KENNETH HUME DONALDSON  
 GEORGE DAVID DUB, B.S.  
 ADOLPH GUSTAV ERNEST HANKE  
 (February 12)  
 LYNNE FRANKLIN HAZZARD  
 MILTON WHITE HELLER, B.S.  
 GEORGE SAHB DE HIERAPOLIS, JR.  
 (October 2)

WALTER CHARLES HILL  
 EDWARD HINMAN, JR., A.B.  
 ELIHU NATHAN KLEINBAUM, B.S.  
 PHILIP KRAFT, JR., B.S.  
 FULGENCE LAROQUE (October 2)  
 EMPIE LATIMER, B.S.  
 CHIN YIN RICHARD LIÜ, B.S. (October 2)

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JOHN MESTON LOVEJOY  
 SAMUEL ANDERSON McKEOWN  
 ERNEST MARQUARDT  
 HENRY CLYDE MOFFETT  
 HARVEY SEELEY MUDD  
 WILLIAM FREDERICK PALMER (October 2)  
 WILLIAM FREDERICK PETERS, JR.  
 (February 12)

WILLIAM ALLEN SCHEUCH  
 ROBERT ALEXANDER SEMPLE  
 GEORGE AUGUSTUS SHAW  
 WILLIAM WASHINGTON SHELBY, B.C.E.,  
 E.M. (October 2)  
 THOMAS WAYNE SKINNER  
 BERTRAM CHAMBERLIN STAIGER  
 MILTON DAVID SWARTZ  
 RICHARD TARANTOUS, B.S.  
 IVAN POPPERS TASHOF  
 BERTRAM LAURENCE TRILLICH  
 JAY PENDLETON WOOD  
 WILLIAM RYER WRIGHT (October 2)

### Metallurgical Engineer

JOHN GLASSFORD, Ph.D.  
 [3]

STUART HARRISON LEVISON  
 CHARLES MAXWELL WARNER, JR.

### Civil Engineer

VLADIMIR PAVLOVITCH ANANIEFF  
 SEYMOUR MERSICK BRADLEY, Ph.B.  
 OSCAR WILLIAM ERNST BROOCKMANN

GEORGE LINDSLEY BURR, A.B.  
 MIGUEL ANGEL COCCO  
 NICHOLAS COLAS



HADJI MICHAEL DER GARABEDIAN, B.S.	FRANK DOUGLAS MOTT
ALEXANDER DOLOWITZ (February 12)	NOORI ZADO NOORIAN
HARRY ENGLANDER (October 2)	PAUL RENSHAW (October 2)
THEODORE GOLDEN	JOSEPH ROSE
GAVIN HADDEN, A.B.	WILLIAM MAYER SCHLOSSMAN, B.S.
CHARLES SELDEN HICKS (October 2)	CLAUDE HENRY VALENTINE
LÉON EDWARD JEANNERET (October 2)	EDWARD FENNO VERPLANCK
JEROME LOEWY, B.S.	JAMES MCBARRON WEBSTER (October 2)
JOHN JOSEPH MCGINLEY, B.S.	BENJAMIN WEISS
WALTER REGINALD MILLER (February 12)	EBERHARD WELLE
[26]	

## Electrical Engineer

CECIL JOHNSTON FINLEY	JULIAN LOEBENSTEIN
WILLIAM HOWARD HAINES	HENRY LUTHER MELLEN, A.B.
LOUIS EDWARD LEVY	LOUIS WALTER
[7]	WILLIAM COMINGS WHITE

## Mechanical Engineer

PEDRO HENRY AGRAMONTE (October 2)	JAY WILLARD LORD (February 12)
PAUL ARNOLD BAUMEISTER	GEORGE FRASER MCCLELLAND
CLAUS DOSCHER BENSON	ROBERT HENRY MCLEOD
WILLARD FERRIS BUTCHER	CEDRIC FERRIS MAGUIRE, B.S.
WILLIAM ALEXANDER CHERRY, Jr.	THEODORE MAYNZ, A.B.
(October 2)	GRAHAM LIVINGSTON MONTGOMERY
WILLIAM BARTON EDDISON	ARTHUR DUDLEY MORRIS (February 12)
HERMAN ROLAND GEIGER	ROBERT LEE MORROW (October 2)
WILLIAM HODGINS GREF	EDGAR HEMINGWAY MOSHER
JAMES LEROY HAYNES	EUGENE ALLSTON MURPHY
NIELS EDWIN HENDRICKSON	WELLS LITTLEFIELD RILEY
EDGAR WHITE HUBBARD	BRUNO W. ROGOWSKI
HAROLD BREWSTER JENKINS (October 2)	FERDINAND CARL SCHEDE
BENJAMIN LASSMAN	WALTER TAG
ALFRED KALISHER LEVY	FRANCIS ADOLPH WEGENER
[30]	WILLIAM HENRY WHEELER

## Chemical Engineer

OSCAR HOCHBERGER, B.S.	BURTON LAWRENCE PFEIFFER
CARL FRITZ HÜTTLINGER, A.B.	HENRY LEWIS READ, A.B.
KARL BARRÉ LAMB	JULIUS ROHN
PERCY WILLIAM EDWARD LANDOLT	CLARENCE KAUFMAN SIMON
ARIE RANDOLPH NORTON, A.B.	JOHN RICHARD SUYDAM, JR.
BERNARD ORMONT, B.S.	(February 12)
[11]	

## Chemist

GILBERT EDWARD SEIL	ARTHUR WALDORF S. THOMAS
[2]	

## Bachelor of Architecture

JOHN KENNEDY BRANNER  
JAMES FOGARTY, B.S.  
HAL FITZGERALD HENTZ, Ph.B.  
[7]

JOHN WILLIAM INGLE, JR.  
ELY JACQUES KAHN, A.B.  
JAMES CAMERON MACKENZIE, JR., A.B.  
JOHN FREDERIC MURPHY

## Bachelor of Science in Architecture

JOHN MULLER

[2]

## Certificate of Proficiency

BERNARD WELLS CLOSE  
HENRY ALBERT WEIHER  
[4]

HAROLD GROSS  
WILLIAM STUART THOMPSON

## Bachelor of Music

JAMES BALSAM, A.B.  
[1]

## Bachelor of Science in Education

BEATRICE ABELES (November 14)  
SHERRED WILLCOX ADAMS  
(November 14)  
AMANDA ANNA ALBERT  
REBECCA ALEXANDER (November 14)  
ETHEL V. ALFKE  
BESSIE MAY ALLEN  
SARA THOMAS ALLEN  
IZA EDITH ANDRIX  
MIRANDA RAY ARMS (February 16)  
LOUISE SIBLEY ATKINSON  
ELLA LOUISE BABCOCK (November 14)  
NAN HARVEY BARKSDALE (February 16)  
GLENN BARTLETT (November 14)  
ALGA MAY BECK  
ALBERT ALEXANDER BECKER  
MABEL BEATRICE VALENTINE BELL  
MABEL IRENE BENEDICT  
ROSS VERNON BENNETT  
JEAN ELIZA BENTLEY  
GERDA BIDSTRUP  
LELIA TYLER BINKLEY  
HILDA LOUISE BOEGEHOLD  
KATHARINE ROGERS BRADY  
WILLIAM EDWARD BRADY  
LEO LESLIE BRENNEMAN  
ELIZABETH BRIDGE  
IVAN LUTZ BROOKMYER  
MABEL EDNA BROWN  
HOWARD DRAKE BRUNDAGE

CHARLOTTE MARY BULLOCK  
HELEN BUQUO  
EDNA JEAN BUSHNELL (February 16)  
EVELYN L. CALEF (November 14)  
EVELYN MILDRED CAMPBELL  
MARGARET M. CAMPBELL  
FRANCES RUTH CARPENTER  
ANNA GERTRUDE CAWLEY  
HENRY ISADOR CHAIM  
HELEN CHANDLER  
GEORGE HERBERT CHATFIELD  
(November 14)  
EMMA LUCENA CHILDS  
ADDIE OLIVE CHRISTIANSON  
(November 14)  
LUCIA HUBBARD CILLEY  
MARY CATHERINE CLUNE  
ABRAHAM COHEN  
PHILIP COHEN  
ELIZABETH VANDERPOEL COLBURN  
EDITH M. COLLINS (November 14)  
JAMES FRANCIS CONNOLLY  
MARIETTA COONROD  
MARIAN EDITH CORNBROOKS  
GEORGIA VALENTINE COY  
FRANCES J. CRONAN  
GERTRUDE CRUDEN  
IRENE BROCKWAY DANA  
MARY ELIZABETH SPENCE DAVIDSON  
KATE PAULINE DAVIS

MAUD ALICE DAVIS (February 16)  
 ABBIE LOUISE DAY  
 EDITH ABINUM DE LIMA  
 FLORENCE DEMPSEY  
 MARY DENNISTON  
 MORRIS CHARLES DESHEL  
 MINNIE EVANS DESVOIGNES  
 JULIA DEUTSCH (November 14)  
 ROBERT MERRILL DEWEY  
 FRANCES M. DICKEY  
 MARY DOHERTY (February 16)  
 WARREN ENGLISH  
 MORRIS LOUIS EPSTEIN  
 MAUDE LOUISE FIERO  
 JENNIE HAZEL FOX  
 WALTER GEORGE FRANKLIN  
 OLIVE MARIA FRENCH (November 14)  
 CAROLINE JOSEPHINE GADDIS  
 JOHN LEONARD GAUNT  
 MARY JANE GENIN  
 LYDIA ROGERS GENTNER  
 MORRIS GLEICH  
 EDNA BELLE GODFREY  
 VERA MAY GODFREY  
 LEO GOLDFINGER  
 GALACIÓ GÓMEZ  
 LOUIS GORDON  
 GEORGE JOSEPH GOTTLIEB  
 FRANCES REBA GOULD (November 14)  
 JULIET GUYER GRAY  
 LILLIAN GRAY  
 FLORA MAY GREENOUGH  
 HENRIETTA GREGORY  
 EMMA GUNTHER (November 14)  
 ANNA MARGARET HAESSLER  
 (November 14)  
 CORA ELIZA HALL  
 MARIE ALINE HALL  
 GEORGIANA HAMEL  
 RUTH GAIL HAMILTON (February 16)  
 KATHERINE ANNA HARDING  
 ANNIE ELIZA HARPER  
 JESSIE WOOTTEN HARRIS  
 MAUDE CAROLINE HATHAWAY  
 MABEL MARTIN HAY  
 HENRIETTA RENA HERMAN  
 FRANCES CALDWELL HIGGINS  
 MARY HIGGINS (November 14)  
 MARY E. HIGGINS  
 JESSICA MATEER HILL  
 ALICE CORNELIA HINCKLEY  
 BESSIE FRANCES HOLMAN  
 GRACE GORDON HOOD  
 ETHEL MARIE HOTALING  
 DANIEL B. HOURIHAN

PAULA HUNAEUS  
 ELSIE MARGARET HUNTER  
 HARRIET ELIZA HUTCHINSON  
 VIOLET INGRAM  
 SADIE LILA JACOBSON (November 14)  
 BERTHA ALMA JARRETT  
 ETHEL JONES (November 14)  
 BENJAMIN KAUFMAN  
 FRANCES MARTIN KELSEY (February 16)  
 LUCILE FLORENCE KELSEY  
 HAZEL WILDONIER KING  
 JEAN VILLA KIRTLAND (November 14)  
 MARY LOIS KISSELL (November 14)  
 LAURA FRY KREADY  
 SARA LANDMAN  
 JOHN EFFERN LANGFORD (February 16)  
 ROBERT JOSSELYN LEONARD  
 CLARENCE HENRY LEVITT  
 MABEL NICHOLS-LIBBIN  
 ELSA LOTZ  
 ERNEST BURT LUCE  
 GENEVIEVE LEMEN LYFORD  
 (November 14)  
 CARRIE HELEN LYON  
 DAVID STEPHEN MCFARLAND  
 MARY BELL MCGAVOCK  
 KATE MILLER MACGREGOR  
 LYDIA BLEU MACPHERSON  
 ANNA BELLE MAHLER  
 LUCY BICKEL MARCH  
 NANCY LAYTON MARTIN  
 VIOLA MAYER  
 LISA CAROLINE MAYO  
 HELEN MANSON MEADS (November 14)  
 ALTA HEPZABETH MERRITT  
 HELEN LÉONIE MIGNON  
 SARA MILES  
 CLARA GAYLAY MILLER (November 14)  
 RUTH BLACKSTONE MITCHELL  
 GRACE ELDRIDGE MIX (February 16)  
 LEILA GERTRUDE MOORE (November 14)  
 LOUIS THEODORE MORSE  
 LOLA MORTON (November 14)  
 KATHARINE MURDOCH  
 MARY ETHEL NESMITH  
 ELEANOR STEVENS NEVILLE  
 MAUD CHRISTINE NEWBURY  
 SAMUEL MATTH NORTH  
 ANNIE SUSAN O'GERAN  
 WINIFRED HENRIETTA O'GRADY  
 (November 14)  
 ANNA VALERIE OLD  
 MARY PAULINE OLIVER  
 ANNA MARGRETHE OLSEN  
 IDA VICTORIA OLSON

ROSE OSTROFF  
 IRENE BELTZ OWEN  
 FRANK W. PALMER (November 14)  
 ELIZABETH EBBERT PARCEL  
 CLARA MABEL PARKER  
 LINETTE ALTHANA PARKER  
 EDITH LANDER PARROTT  
 HELENA MAY PATTERSON  
 EDNA PHILLIPS  
 MAE EVANGELINE PICKEN  
 DOROTHY ELIZABETH PORTER  
 ELENA RAFAELA PRATS  
 EVELIN ELIZABETH PRIBBLE  
 (November 14)

MARGARET LIGHTFOOT PRICE  
 EFFIE ISABEL RAITT  
 CARL SEIB RANKIN  
 SAMUEL REICHARD  
 GEORGE LORENZO RELVEA  
 EDWARD A. REUTHER (November 14)  
 ERNEST GEORGE REYNOLDS  
 CHARLOTTE RICHARDSON  
 SOPHIE ROBBINS  
 ETHEL HEDLEY ROBSON  
 LILLIAN EMILY ROGERS  
 LUCILLE ROSENBERG  
 MAY DAVINA ROSS  
 EMMA LOUISE HAUCK ROWE  
 DOROTHY CHASE ROWELL  
 MAURICE F. SCHACHTER  
 GRACE SCHERMERHORN  
 VIRGINIA MARIE SCHWARTZ  
 LURENE SEYMOUR  
 BLANCHE ELAINE SHAFFER  
 ALTA SHELTON  
 LAURA E. SHRYER  
 MARY SIEGRIST  
 KATE CAMERON SIMMONS  
 CORA FRONIA SIMPSON  
 GERTRUDE ELIZA SKINNER  
 HILDA SMITH  
 LAURA GOODING SMITH  
 STEPHEN VELSOR SMITH  
 HAROLD EUGENE SPEECE  
 MARY SPENCER  
 ETHEL EUPHEMA SPURR  
 JENNIE MAY STAGE  
 [255]

ROXANA ALER STEELE  
 MERLE MARIE STEPHENS (November 14)  
 ALA MARGARET STONE  
 LOUIS STONE  
 WILLARD ALLEN STOWELL  
 LOUISE CHRISTINE SUTHERLAND  
 SARAH LILLIAN SWORDS  
 JESSIE RAND TANNER (November 14)  
 LAURA TAYLOR  
 MARTHA ELLEN THOMAS  
 ALICE THOMPSON  
 DOROTHY HASTINGS TREAT  
 (February 16)  
 MARJORIE KENT TREAT (February 16)  
 ARCHIE TSUNG-LIANG TSEN  
 ELIZABETH LEE TUCKER  
 KATHARINE TUPPER  
 CLARA GRETHA TURNER  
 MARY BEALS VAIL  
 JULIA VANCE  
 MYRTIE CLARK VANDEUSEN  
 MARCEL HENRI VIGNERON  
 FLORENCE DIDIER WALLACE  
 JOHN JOSEPH WALSH  
 SAMUEL EDWIN WARDELL  
 ARTHUR ELBERT WATERBURY  
 AVIS WATERBURY (November 14)  
 SUSAN AUGUSTA WATSON  
 LUISE WECKMANN  
 RALEIGH WEINTROB  
 PAULINE MARIE WEISS  
 MARGARET ELIZABETH WELLS  
 (November 14)

ALICE WESSA  
 MABEL LOUISE WEST  
 JESSIE ISABEL WHITHAM (November 14)  
 MARY GERTRUDE WILFORD  
 HARRIET LOUISA WILSON (November 14)  
 LEON LOYAL WINSLOW  
 LEONORA EUGENE WINWARD  
 LEONARD BAYARD WOHFEIL  
 JENNIE WOODDELTON  
 MARY ST. CLAIR WOODRUFF  
 AGNES MABEL WORTHINGTON  
 (November 14)  
 ELEANOR WRIGHT  
 MARY ALMA WRIGHT  
 SAMUEL FREDERICK ZIMBAL

### Doctor's Diploma in Education

TSURU ARAI  
 SAMUEL WINDSOR BROWN  
 ERNEST BURNHAM  
 FRANK PIERREPONT GRAVES  
 JOSEPH LINDSEY HENDERSON  
 [11]

MILO BURDETTE HILLEGAS  
 ERNEST OTTO HOLLAND  
 ALEXANDER JOHN WILLIAM MYERS  
 CHARLES LEONIDAS ROBBINS  
 BENJAMIN ROY SIMPSON  
 ROMIETT STEVENS

## Master's Diploma in Education

*Biology*

SARAH MARCIA HOLMES  
GILBERT TRAFTON

INA YOAKLEY

*Education*

FRANCES ISABEL DAVENPORT  
EMMA GERTRUDE LEAKE

EVERARD PATTERSON MILLER, JR.

*Educational Administration*

HERBERT AUSTIN BROWN  
WALLACE STREETER CHILSON  
HORACE LUTHER CUSTER  
JOHN CLIFFORD FRAZEE  
PINGWEN KUO  
WILLIS DELBERT MAGGINIS

PITT SAMUEL MURRILL  
WALTER WILLIAM PETTIT  
ANDREW SAMUEL THOMSON  
KHALIL ABDULLAH TOTAH  
ELDON LEONARD USRY  
COLUMBUS CALLOWAY WHISENHUNT

*Educational Psychology*

WILLIAM PAXTON BURRIS  
J. CALVIN FUNK

FANNIE MOULTON McLANE  
MARVIN JAMES VAN WAGENEN

*Elementary Supervision*

MANUEL BARRANCO  
KATHERINE M. COOK  
HOWARD JOHN HANNA  
HENRY HARRISON HELTER (February 16)  
WILLIAM ARTHUR MADDOX  
ISAAC NAGOURNEY

HARRY PIERSON  
HARRY PRIMROSE PORTER  
EDNA DRAKE SCUDDER  
WINIFRED SIBLEY  
FLORA WILBER  
JOHN WYCLIFFE YOST

*English*

WINIFRED LLOYD DAVIS  
EDNA DEE HIGGINS  
MARGARET BAKER MORISON

HELEN S. PHILLIPS  
FLORENCE RODEWIG

*Fine Arts*

WALTER CHARLES LEWIS WHITE

*History*

BERNICE MADELEINE ATTNER

*History of Education*

ISRAEL LEOPOLD (November 14)  
GERTRUDE M. LOBDELL

EMILY OTTILIE MILER  
BUNYAN YATES TYNER

*Household Arts*

ALMA JESSIE FINLAYSON  
WILBURTA ANNA KNIGHT

LOUISE MCDANELL  
CHARLOTTE SMITH



## DEGREES CONFERRED

*Industrial Education*

SAMUEL BURKHARD  
FRED BLAINE HAGAMAN

ELDON LEONARD USRY

*Latin*

JENNIE KING MACKAY  
EDNA JOSEPHINE MCKEEVER

AGNES STRACHAN  
ANNIE SCHMELZEL VAN BUSKIRK

*Mathematics*

KATHERINE SABIN ARNOLD  
JOSEPH CLIFTON BROWN  
TSAI HSIEN CHEN  
RUTH FITCH COLE  
JESSIE MAY REYNOLDS

FRANCES BERTHA SELKIN  
LAO GENEVRA SIMONS  
KATHERINE ABY SIMPSON  
MIRIAM ESTHER WEST

*Philosophy of Education*

LAUTREC CRANMER BROGDEN  
ALVIN J. MILLER

ELIZABETH ROWELL  
MYRON LAWSON WILLIAMS

*Physical Science*

ALICE MAY CHILD

GERTRUDE VAN AUKEN TYNDALL

*Religious Education*

WILLIAM ROCKWELL LEETE

*Secondary Education*

ANDREW JACKSON ALLEN  
JOHN BURKETT BARROW (February 16)  
HOPE FISHER  
JAMES ROBERT HUNTER  
GENEVIEVE STILSON MCGILL  
CHARLOTTA HARRIET OLIN  
[83]

ARTHUR FRANCIS O'MALLEY  
EDWIN LEHMAN RICKERT  
CATHERINE MAILLER RIDER  
(November 14)  
M. MURIEL ROCHESTER  
THOMAS MARTIN TODD

## Bachelor's Diploma in Education

*Biology*

LELIA TYLER BINKLEY  
GEORGIA VALENTINE COY  
MARY ELIZABETH SPENCE DAVIDSON  
GALACIÓ GÓMEZ

ELENA RAFAELA PRATS  
MAY DAVINA ROSS  
MAURICE FRANK SCHACHTER  
WILLARD ALLEN STOWELL

*Commercial Education*

ANNA GERTRUDE CAWLEY

*Dietetics*

EMMA LUCENA CHILDS

EFFIE ISABEL RAITT

*Domestic Art*

HILDA LOUISE BOEGEHOLD	LAURA GOODING SMITH
RUTH GAIL HAMILTON (February 16)	MERLE MARIE STEPHENS (November 14)
LOLA MORTON (November 14)	MARY BELLE TOWLER
EMMA LOUISE HAUCK ROWE	

*Domestic Science*

BESSIE MAY ALLEN	CARRIE HELEN LYON
MIRANDA RAY ARMS (February 16)	LYDIA BLEU MACPHERSON
ELLA LOUISE BABCOCK (November 14)	HELEN MANSON MEADS (November 14)
MABEL IRENE BENEDICT	CLARA GAZLAY MILLER (November 14)
JEAN ELIZA BENTLEY	WINIFRED HENRIETTA O'GRADY
CHARLOTTE MARY BULLOCK	(November 14)
HELEN BUQUO	CLARA MABEL PARKER
EDNA JEAN BUSHNELL (February 16)	LYDIA ELLEN PHOENIX, A.M.
IRENE BROCKWAY DANA	(November 14)
JENNIE HAZEL FOX	LAURA E. SHRYER
OLIVE MARIA FRENCH (November 14)	CORA FRONIA SIMPSON
EDNA BELLE GODFREY	HILDA SMITH
VERA MAY GODFREY	MARTHA ELLEN THOMAS
ANNA MARGARET HAESSLER	MARY BEALS VAIL
(November 14)	JULIA VANCE
ETHEL JONES (November 14)	HARRIET LOUISA WILSON (November 14)
SARA LANDMAN	

*Educational Administration*

SAMUEL MAITH NORTH

*Educational Psychology*

KATHARINE MURDOCH

*Elementary Education*

MARY DENNISTON	FRANCES MARTIN KELSEY (February 16)
MILDRED DODGE	ANNIE SUSAN O'GERAN
GEORGE JOSEPH GOTTLIEB	ELIZABETH LEE TUCKER

*Elementary Supervision*

GERDA BIDSTRUP	CLARENCE HENRY LEVITT
LEO LESLIE BRENNEMAN	ERNEST BURT LUCE
MABEL EDNA BROWN	KATE MILLER MACGREGOR
MARGARET M. CAMPBELL	LEILA GERTRUDE MOORE (November 14)
GEORGE HERBERT CHATFIELD	MAUD CHRISTINE NEWBURY
(November 14)	ETHEL HEDLEY ROBSON
LUCIA HUBBARD CILLEY	LILLIAN EMILY ROGERS
JAMES FRANCIS CONNOLLY	ROXANA ALER STEELE
FRANCES J. CRONAN	LAURA TAYLOR
MAUD ALICE DAVIS (February 16)	ALICE THOMPSON
ABBIE LOUISE DAY	ARCHIE TSUNG-LIANG TSEN
MINNIE EVANS DESVOIGNES	ARTHUR ELBERT WATERBURY
MARY DOHERTY (February 16)	MARGARET ELIZABETH WELLS
CAROLINE JOSEPHINE GADDIS	(November 14)
ANNIE ELIZA HARPER	MABEL LOUISE WEST
ALICE CORNELIA HINCKLEY	MARY ST. CLAIR WOODRUFF
LAURA FRY KREADY	

*English*

SHERRED WILLCOX ADAMS (November 14)	LUCILE FLORENCE KELSEY
REBECCA ALEXANDER (November 14)	HAZEL WILDONIER KING
NAN HARVEY BARKSDALE (February 16)	JEAN VILLA KIRTLAND (November 14)
ROSS VERNON BENNETT	MARY BELL MCGAVOCK
KATHARINE ROGERS BRADY	LUCY BICKEL MARCH
ADDIE OLIVE CHRISTIANSON (November 14)	NANCY LAYTON MARTIN
ROBERT MERRILL DEWEY	ALTA HEFZABETH MERRITT
JULIET GUYER GRAY	LOUIS THEODORE MORSE
LILLIAN GRAY	MARY ETHEL NESMITH
HENRIETTA RENA HERMAN	ELEANOR STEVENS NEVILLE
FRANCES CALDWELL HIGGINS	IRENE BELTZ OWEN
MARY E. HIGGINS	HELENA MAY PATTERSON
JESSICA MATER HILL	MARY SIEGRIST
ETHEL MARIE HOTALING	LEONARD BAYARD WOHLFEIL
	SAMUEL FREDERICK ZIMBAL

*Fine Arts*

AMANDA ANNA ALBERT	KATE CAMERON SIMMONS
FRANCES RUTH CARPENTER	MARY SPENCER
ELIZABETH VANDERPOEL COLBURN	FLORENCE DIDIER WALLACE
LEO GOLDFINGER	LEONORA EUGENE WINWARD
MARIE ALINE HALL	CAROLINE CONKLIN WOOD
MARY LOIS KISSELL (November 14)	

*French*

BEATRICE ABELES (November 14)	ROSE OSTROFF
MORRIS LOUIS EPSTEIN	JENNIE MAY STAGE
HARRIET ELIZA HUTCHINSON	MARCEL HENRI VIGNERON
CAROLINE KAHN	LUISE WECKMANN

*Geography*

MARY CATHERINE CLUNE	ALICE WESSA
GEORGIANA HAMEL	AGNES MABEL WORTHINGTON (November 14)
SARAH LILLIAN SWORDS	

*German*

ALBERT ALEXANDER BECKER	ELSA LOTZ
SARA LILIAN BLUMGARTEN	VIRGINIA MARJE SCHWARTZ
JOHN LEONARD GAUNT	CATHERINE MARGARETTA WALTHER
PAULA HUNAUEUS	LUISE WECKMANN

*Grammar Grades Teaching*

ANNA BELLE MAHLER	MABEL NICHOLS-LIBBIN
-------------------	----------------------

*History*

ETHEL V. ALPKE	MORRIS CHARLES DESHEL
WILLIAM EDWARD BRADY	JULIA DEUTSCH (November 14)
HENRY ISADOR CHAIM	MAUDE LOUISE FIERO
PHILIP COHEN	FLORA MAY GREENOUGH

HARRIET FLORENCE HALE  
 DANIEL B. HOURIHAN  
 BERTHA ALMA JARRETT  
 JOHN EFFERN LANGFORD (February 16)  
 SARA MILES  
 MARY PAULINE OLIVER  
 ALTA SHELTON

ALBERT LEE SMALLHEISER  
 STEPHEN VELSOR SMITH  
 ETHEL EUPHEMA SPURR  
 JOHN JOSEPH WALSH  
 PAULINE MARIE WEISS  
 AGNES MABEL WORTHINGTON  
 (November 14)

### *Household Administration*

SARA THOMAS ALLEN  
 EMMA LUCENA CHILDS  
 EDITH ABINUM DE LIMA

EMMA GUNTHER (November 14)  
 EFFIE ISABEL RAITT

### *Household Arts*

#### GROUP I

MARIETTA COONROD  
 GERTRUDE CRUDEN  
 LISA CAROLINE MAYO

#### GROUP II

GERTRUDE CRUDEN  
 MAUDE CAROLINE HATHAWAY  
 MABEL MARTIN HAY  
 LISA CAROLINE MAYO  
 EDNA PHILLIPS  
 LURENE SEYMOUR  
 KATHARINE TUPPER  
 MYRTIE CLARK VAN DEUSEN  
 MARY ALMA WRIGHT

#### GROUP III

JUANITA BROWN  
 MARIAN EDITH CORNBROOKS  
 GRACE GORDON HOOD  
 CLARA GRETHA TURNER

#### GROUP IV

ELIZABETH BRIDGE  
 HELEN CHANDLER  
 MARIAN EDITH CORNBROOKS  
 KATE PAULINE DAVIS  
 HENRIETTA GREGORY  
 CORA ELIZA HALL  
 KATHERINE ANNA HARDING  
 JESSIE WOOTTEN HARRIS  
 GRACE GORDON HOOD  
 HELEN LÉONIE MIGNON  
 ANNA MARGRETHE OLSEN  
 EDITH LANDER PARROTT  
 GRACE SCHERMERHORN  
 BLANCHE ELAINE SHAFFER  
 KATHARINE TUPPER  
 CLARA GRETHA TURNER

### *Industrial Arts*

WARREN ENGLISH  
 WALTER GEORGE FRANKLIN  
 SAMUEL REICHARD

GEORGE LORENZO RELYEA  
 EDWARD A. REUTHER (November 14)  
 DOROTHY CHASE ROWELL

### *Industrial Arts Supervision*

ROBERT JOSSELYN LEONARD  
 DAVID STEPHEN MCFARLAND  
 DOROTHY ELIZABETH PORTER  
 ERNEST GEORGE REYNOLDS

HAROLD EUGENE SPEECE  
 SAMUEL EDWIN WARDELL  
 LEON LOYAL WINSLOW

### *Kindergarten Supervision*

LOUISE SIBLEY ATKINSON  
 GENEVIEVE LEMEN LYFORD

(November 14)

GRACE ELDRIDGE MIX (February 16)  
 GERTRUDE ELIZA SKINNER

### *Kindergarten Teaching*

KATHERINE TREMAN HALSEY  
 ANNA VALERIE OLD

MARGARET LIGHTFOOT PRICE  
 LUCILLE ROSENBERG

*Latin*

SARA LILIAN BLUMGARTEN  
JO EPH ALOYSIUS CONWAY  
HARRIET FLORENCE HALE

JOSEPH LEVY  
MARY ETHEL NESMITH  
MARY GERTRUDE WILFORD

*Mathematics*

MABEL BEATRICE VALENTINE BELL  
EDNA BOOTH  
EDITH M. COLLINS (November 14)  
MARY JANE GENIN  
LYDIA ROGERS GENTNER  
LOUIS GORDON  
IRENE GRACE JOHNSON  
BENJAMIN KAUFMAN  
MARY AMANDA LOUGHREN

FRANK W. PALMER (November 14)  
EVELIN ELIZABETH PRIBBLE  
(November 14)  
CARL SEIB RANKIN  
SOPHIE ROBBINS  
LOUIS STONE  
BENJAMIN BERGEN STRANG  
RUBERTA THOMPSON

*Music*

FRANCES M. DICKEY  
RUTH BLACKSTONE MITCHELL

CHARLOTTE RICHARDSON  
ELEANOR WRIGHT

*Nursing and Health*

LINETTE ALTHANA PARKER

SUSAN AUGUSTA WATSON

*Physical Education*

ALGA MAY BECK  
MORRIS GLEICH  
MARY ISABEL PATTEN  
JESSIE RAND TANNER (November 14)

LAURA TAYLOR  
JESSIE ISABEL WHITHAM (November 14)  
JENNIE WOODELTON

*Physical Science*

IVAN LUTZ BROOKMYER  
ABRAHAM COHEN

VIOLET INGRAM

*Primary Supervision*

MARY HIGGINS (November 14)  
MAE EVANGELINE PICKEN

ALA MARGARET STONE

*Primary Teaching*

GLENN BARTLETT (November 14)  
[273]

ELSIE MARGARET HUNTER  
ELIZABETH EBBERT PARCEL

*Pharmaceutical Chemist*

AINSLIE BUCK, Ph.G.  
EUGENE CALVELLI, Ph.G.  
GEORGE CALVELLI, Ph.G.  
WILLIAM GOGGIN CROCKETT, Ph.G.  
PASQUAL GUERRIERI, Ph.G.  
PHILIP MAZZAN, Ph.G. (October 2)  
HARRY H. MILLER, Ph. G. (October 2)  
ALBERT AUGUST MUENCH, Ph.G.

MAXIMILIAN NEMSER, Ph.G.  
[15]  
HERBERT C. OEHLERS, Ph.G.  
ELSA GRACE PICKHARDT, Ph.G.  
ATILIO ROBERTIELLO, Ph.G.  
ROBERT CLINTON SCHLEUSSNER, Ph.G.  
GUSTAV SIMON, Ph.G.  
CHARLES WILLIAM WHITE, Ph.G.

*Doctor of Pharmacy*

FRANK L. HUNT, Ph.G., Ph.C.  
[2]

JULIUSMAYER BREITENBACH, Ph.G., Ph.C.  
(October 2)



## Master of Arts

- ARTHUR BARTO ADAMS  
A.B. South Carolina 1910.
- NUMA P. G. ADAMS  
A.B. Howard 1911.
- ISABEL ALDEN  
A.B. Wellesley 1908.  
(October 17)
- ANDREW JACKSON ALLEN  
GEORGE HOYT ALLEN, JR.  
A.B. Hamilton 1908, A.M. 1911.
- EDGAR ALTENBURG  
A.B. 1911.
- RAYMOND ROBERT AMMARELL  
A.B. Muhlenberg 1911.
- DONALD BUDD ARMSTRONG  
Ph.B. Lafayette 1908.
- KATHERINE SABIN ARNOLD  
A.B. Mt. Holyoke 1906.
- BERNICE MADELEINE ATTNER  
A.B. Radcliffe 1910.
- HENRY MICHAEL BACH  
C.E. 1911.
- HELEN ESTELLE BACON  
Ph.B. Michigan 1892.
- ALBERT CRAIG BAIRD  
A.B. Wabash 1907, B.D. Union  
Theol. Sem. 1910.  
(February 20)
- CHARLES SILAS BAKER  
A.B. Cornell 1911.
- EDWARD DONALD BAKER  
A.B. Chicago 1903.
- ELMER WAYNE BAKER  
A.B. Princeton 1908.
- MAACHAH BELL BALD  
A.B. Toronto 1888.
- CHARLES WILLIAM BALLARD  
Ph.C. 1907, Phar.D. 1908.  
(October 17)
- JAMES BALSAM  
A.B. C. C. N. Y. 1909.
- HARRIET LOUISA BARBER  
B.S. 1909.  
(October 17)
- MANUEL BARRANCO  
B.S. 1911.
- JOHN BURKETT BARROW  
A.B. Durham 1898.  
(February 20)
- EDWARD JOHN BECK  
A.B. Central Wesleyan Coll. 1906,  
B.D. Drew 1909.
- ADAM S. BENNION  
A.B. Utah 1908.
- ADELE BILDERSEE  
A.B. N.Y. Normal Coll. 1903.
- FANNY AURILL BISHOP  
A.B. 1911.
- ARMANELLA BLACK  
Ph.B. Drake 1910.
- MARTIN EMERSON BLAUVELT  
A.B. 1905.
- ERNST PHILIP BOAS  
B.S. 1910.  
(February 20)
- BERTHA M. BOODY  
A.B. Radcliffe 1899.
- LAURA BOOTH  
LL.B. New York Univ. 1904,  
B.C.S. 1906.  
(October 17)
- ROBERT WESLEY BRIGGS  
C.E. 1911.
- WARREN EDWIN BRISTOL  
A.B. Middlebury Coll. 1907.
- LAUTREC CRANMER BROGDEN  
Ph.B. North Carolina 1895.
- BARNARD SAWYER BRONSON  
A.B. 1908.  
(February 20)
- MABEL FRANCES BROOKS  
A.B. Smith 1898.  
(October 17)
- HERBERT AUSTIN BROWN  
B.S. 1907, A.B. Valparaiso 1908.
- JOSEPH CLIFTON BROWN  
A.B. Hanover Coll. 1901.
- MAY BROWNLEE  
A.B. Wilson Coll. 1908.
- EVEREND LESTER BRUCE  
B.S. Queen's Univ. 1909, A.B. 1911.
- CHESTER SARBIN BUCHER  
A.B. Oberlin 1910.
- HORACE MANN BUCKLEY  
A.B. Northwestern 1908.  
(February 20)
- MARGARET THERESA BULSON  
A.B. Radcliffe 1905.
- CHARLES GILLETTE BURD  
A.B. Amherst 1898.
- AGNES MADELEINE BURKE  
A.B. 1911.
- SAMUEL BURKHARD  
A.B. Goshen Coll. 1911.
- EMILY THORP BURR  
A.B. 1911.

- WALTER SCOTT CAMERON  
A.B. C. C. N. Y. 1895.  
(October 17)
- ANNA LUCENÉ CAMPBELL  
A.B. Washington 1906.
- JOHN LEO CAMPION
- LUCY ADA CASE  
A.B. Wisconsin 1911.
- TSAI HSIN CHEN  
A.B. Peking Univ. 1901, A.M. 1909.
- ALICE MAY CHILD  
B.S. Minnesota 1901.
- WALLACE STREETER CHILSON  
A.B. 1911.
- MAXWELL CIVIC  
B.S. C. C. N. Y. 1909.
- AGNES WILLIAMS CLANCY  
A.B. Smith 1908.
- ALEXANDER CECIL CLARKE  
A.B. Oxford 1909.  
(February 20)
- DONALD LEMEN CLARK  
A.B. DePauw 1911.
- GENEVIEVE CLOYD  
A.B. Smith 1897.
- MILDRED WINANS COCHRAN  
B.S. George Washington Univ. 1907.
- ORA JASON COHEE  
A.B. Wabash 1909.
- SAMUEL MEIR COHEN  
B.S. 1910.  
(February 20)
- ALBER! MARIAN COHN-McMASTER  
A.B. 1910.
- RUTH FITCH COLE  
A.B. Minnesota 1902.
- CATHERINE E. CONWAY  
A.B. N. Y. Normal Coll. 1911.
- KATHERINE M. COOK  
A.B. Colorado Teachers Coll. 1911.
- ISABELLA MITCHELL COOPER  
A.B. 1901.  
(February 20)
- CHARLES LESUEUR CORNELIUS  
A.B. Vanderbilt 1910.
- ARTHUR WILSON COURTNEY  
A.B. C. C. N. Y. 1910.  
(October 17)
- RICHARD GARFIELD COX  
Ph.B. Hiram Coll. 1902.  
(October 17)
- WILLIAM ANDREW CROZIER  
A.B. Dickinson 1907, A.M. 1909,  
B.D. Drew Theol. Sem. 1909.
- MAX PEARSON CUSHING  
A.B. Bowdoin 1909.
- HORACE LUTHER CUSTER  
A.B. Ursinus 1909.
- CLARA SANFORD CUTLER  
A.B. Mt. Holyoke 1910.
- WILLIE WELLINGTON DANIEL  
A.B. Columbia Coll. S. C. 1907,  
A.M. 1909.
- FRANCES ISABEL DAVENPORT  
B.S. 1904.
- WINIFRED LLOYD DAVIS  
A.B. State Normal Coll. Kansas  
1911.
- HARRIET DAY  
A.B. 1905.  
(October 17)
- NELLIE MAUDE DeCOU  
B.S. 1907.
- SOLOMON DE LEON  
A.B. C. C. N. Y. 1902.
- ALFRED LUDLUM DEYO  
A.B. Williams 1908.
- FRANK EVANS DICKIE  
A.B. Acadia University 1909.
- LUCY DEE DICKINSON  
A.B. Washburn Coll. 1906,  
A.M. Kansas 1907.
- RUTH LUCILE DIETRICH  
A.B. Smith 1909.
- OLIVE LOUISE ECCLES  
A.B. New York Normal Coll. 1911.
- MEYER EICHMANN  
A.B. Columbia 1911.
- AHMED EMIN
- AGNES A. ENNIS  
A.B. N. Y. Normal Coll. 1909.
- RALPH ALMON FELTON  
Ph.B. Southwestern Coll. 1905.
- GEORGE OSCAR FERGUSON, JR.  
A.B. William and Mary 1907.  
(October 17)
- GRACIA LILIAN FERNANDEZ  
B.S. Maine 1898.
- FRANKLIN CHARLES FETTE  
Ph.B. Oberlin 1899.
- ALMA JESSIE FINLAYSON  
B.S. 1910.
- HOPE FISHER  
A.B. Vassar 1908.
- LIZETTE ANDREWS FISHER
- AARON BOYLAN FITZ-GERALD  
A.B. 1911.
- RUTH FLANIGEN  
A.B. Vassar 1909.
- KATHARINE OGDEN FLETCHER  
A.B. Smith 1900.

- ETHEL A. FOLWELL  
 A.B. Nashville 1910.  
 RICHARD FONDILLER  
 B.S. C. C. N. Y. 1903.  
 GRACE HOLT FORSYTH  
 A.B. Stanford 1906.  
 CHARLES HENRY GOULD FORT  
 A.B. Cornell Coll. (Iowa) 1908, B.D.  
 Drew Theol. Sem. 1911.  
 DIXON RYAN FOX  
 A.B. 1911.  
 CHARLOTTE ANNE FRANCIS  
 B.S. 1906.  
 LEON FRASER  
 A.B. 1910.  
 JOHN C. FRAZEE  
 A.B. Coe College 1904.  
 FRANK FRITTS  
 A. B. Princeton 1910.  
 JOHN CALVIN FUNK  
 A.B. Kansas State Teachers Coll.  
 1910.  
 HELENA GEER  
 A.B. Cornell 1903.  
 WILLIAM FRANCIS GIBBS  
 HEBER HOWARD GIBSON  
 Ph.B. Denison 1909.  
 ROSAMOND GOERTNER  
 B.S. 1907.  
 EDGAR HUNT GOOLD  
 A.B. Amherst 1904, B.D. General  
 Theo. Sem. 1911.  
 WALTER JAMES GRAHAM  
 A.B. Bates 1911.  
 VIRGINIA GRAVES  
 A.B. Earlham 1911.  
 WIL LOU GRAY  
 A.B. Columbia Coll. S. C. 1903.  
 (October 17)  
 GABRIEL MARCUS GREEN  
 B.S. C. C. N. Y. 1911.  
 ALMA GUITNER  
 A.B. Otterbein 1897, A.M. 1904.  
 (October 17)  
 ISADOR HABER  
 A.B. 1911.  
 MARION HACKEDORN  
 B.L. Ohio Wesleyan 1898, A.B.,  
 A.M. 1901.  
 FRED BLAINE HAGAMAN  
 B.S. 1907.  
 GEORGE RUSSELL HAGEMAN  
 A.B. 1905.  
 WILL TALIAFERRO HALE  
 A.B. Vanderbilt 1902, A.M. 1902,  
 B.D. Yale 1905.  
 CLIFFORD WATSON HALL  
 A.B. Wesleyan 1904.  
 (October 17)  
 KATHERINE TREMAN HALSEY  
 A.B. Vassar 1908.  
 NANNETTE FRANCES HAMBURGER  
 A.B. 1910.  
 HOWARD JOHN HANNA  
 A.B. Kan. State Teachers Coll. 1911.  
 TAMEZO HARADA  
 B.D. Drew Theol. Sem. 1910.  
 LIDIE HARROLD  
 Ph.B. Oberlin 1900.  
 GEORGE WILMOT HART  
 Litt.B. Rutgers 1909.  
 CARY WALKER HAYES  
 A.B. Washburn 1909.  
 IRMA FANNY HEIDEN  
 A.B. 1911.  
 MIRIAM B. HEIDENIS  
 A.B. N. Y. Normal Coll. 1911.  
 HENRY HARRISON HELTER  
 A.B. Ohio Wesleyan 1891.  
 (February 20)  
 ANNA FRANCIS HERRESHOFF  
 A.B. 1911.  
 HUBERT CLINTON HERRING, JR.  
 A.B. Oberlin 1911.  
 GEORGE ERNEST HESSE  
 A.B. Ohio State 1910.  
 EDNA DEE HIGGINS  
 B.L. California 1911.  
 HAROLD GRIFFITH HIGH  
 A.B. Brown 1909, B.D. Union Theol.  
 Sem. 1912.  
 PHILO CARPENTER HILDRETH  
 A.B. Oberlin 1889.  
 (February 20)  
 IDA HILLERMAN  
 A.B. Miss. State Coll. for Women  
 1904.  
 OSCAR HOCHBERGER  
 B.S. 1910.  
 MILDRED ALBRO HOGE  
 A.B. Goucher Coll. 1908.  
 KREMER J. HOKE  
 A.B. Mt. St. Mary's Coll. 1904,  
 A.M. Univ. of Virginia.  
 (October 17)  
 LINDA HOLLOWAY  
 A.B. Vassar 1905.  
 SARAH MARCIA HOLMES  
 A.B. Park Coll. 1909.  
 BERTA HAMILTON HOOKER  
 B.L. Converse Coll. 1906.

- ERNEST JASPER HOPPER  
 A.B. St. Stephen's 1910.  
 BENJAMIN HOROWITZ  
 B.S. 1911.  
 JAMES ROBERT HUNTER  
 A.B. Vanderbilt 1895.  
 CARL F. HÜTTLINGER  
 A.B. 1909.  
 JOHN P. JOCHINSEN  
 A.B. Laurence Coll. 1911.  
 HERBERT B. JOHNSTON  
 A.B. Toronto 1908.  
 THOMAS DORSEY JONES  
 A.B. Indiana 1907.  
 (February 20)  
 REUBEN KAUFMAN  
 A.B. Clark Coll. 1911.  
 MRS. MAUD ZEAMER KEAT  
 A.B. Dickinson 1894, A.M. 1896.  
 (February 20)  
 MELVILLE TALBOT KENNEDY  
 A.B. Illinois Coll. 1904.  
 ELIZABETH EDWARDS KING  
 A.B. Wellesley 1897.  
 HOWARD LANGDON KING  
 A.B. C. C. N. Y. 1908.  
 RUSSELL THORP KIRBY  
 B.S. 1910.  
 ELSA KIRCHBERGER  
 B.S. 1908.  
 WILBURTA ANNA KNIGHT  
 B.S. Wyoming 1911.  
 PINGWEN KUO  
 B.S. Wooster 1911.  
 BENJAMIN JOSEPH KRAMER  
 B.S. C. C. N. Y. 1911.  
 GERTRUDE MARY KUPER  
 A.B. Notre Dame, Maryland, 1909.  
 SARA GRANT LAIRD  
 A.B. Oberlin 1904.  
 SIDNEY LAKE  
 B.S. C. C. N. Y. 1906.  
 EDWIN SELDEN LANE  
 Ph.B. Yale 1908.  
 MINOR WHITE LATHAM  
 A.B. Miss. State Coll. for Women  
 1901.  
 MARION FOX LAW  
 A.B. N. Y. Normal Coll. 1909.  
 EMMA GERTRUDE LEAKE  
 Ph.B. Colorado 1897.  
 OTIS SHUE ORN LEE  
 B.S. California 1910.  
 WILLIAM ROCKWELL LEETE  
 A.B. Yale 1908.  
 SUSAN BROWN LEITER  
 A.B. Mt. Holyoke 1899.  
 (October 17)  
 ISRAEL LEOPOLD  
 A.B. C. C. N. Y. 1903, LL.B. N. Y. U.  
 1907.  
 (October 17)  
 SAMUEL LESSELBAUM  
 B.S. C. C. N. Y. 1901.  
 SAMUEL LEVINE  
 A.B. Tulane 1911.  
 MARY JAY LEWIS  
 A.B. Smith 1911.  
 MATHIAS SMYSER LEWIS  
 B.S. Gettysburg Coll. 1911.  
 SIDNEY LIEBOVITZ  
 A.B. 1909.  
 ANGELO LIPARI  
 A.B. 1911.  
 LLEWELLYN LLOYD  
 A.B. 1911.  
 GERTRUDE MAY LOBDELL  
 B.S. 1911.  
 ALEXANDER LOWY  
 B.S. 1911.  
 CLARA JULIA LYNCH  
 B.L. Smith 1903.  
 EDWARD D. B. LYNDE  
 Ph.B. Syracuse 1911.  
 JOHN RAMBO LYONS  
 A.B. James Millikin 1910.  
 JENNIE KING MACKAY  
 A.B. 1911.  
 WILLIAM MACROSSIE  
 A.B. 1911.  
 MARVIN OWENS MCCORD  
 B.S. Meridian Male Coll. 1910.  
 (October 17)  
 DANIEL ERNEST MCCURRY  
 A.B. Missouri Valley 1909.  
 LOUISE MCDANELL  
 B.S. Nashville 1902, A.B. Leland  
 Stanford 1906.  
 GENEVIEVE STILSON McDILL  
 Ph.B. Wisconsin 1902.  
 (October 17)  
 EDNA JOSEPHINE MCKEEVER  
 A.B. 1911.  
 WILLIAM ARTHUR MADDOX  
 A.B. William and Mary 1904.  
 (October 17)  
 WILLIS DELBERT MAGGINIS  
 B.S. Tri-State Coll. 1910, A.B. 1911.  
 LOUISE L. MAHLER  
 A.B. N. Y. Normal Coll. 1910.

- WALLACE A. MANHEIMER  
B.S. C. C. N. Y. 1908.
- REUBEN HENRY MARKHAM  
A.B. Washburn 1908, B.D. Union  
Theol. Sem. 1911.  
(February 20)
- BEATRIX K. MARY  
A.B. Olivet Coll. 1903, A.M. Michigan  
1904.
- LEONARD JEROME MATTESON  
A.B. Colgate 1911.
- ELIZABETH MATTHEWS  
B.S. Ohio State 1906.
- CLARENCE FUSON MERRELL  
A.B. Wabash 1909.
- CARL LUDWIG WILHELM MEYER  
A.B. Michigan 1910.
- EMILY OTTILIE MILER  
A.B. Wellesley 1911.
- ALVIN J. MILLER  
A.B. Goshen Coll. 1911.
- EVERARD PATTERSON MILLER, JR.  
A.B. Princeton 1908.
- LIVY MAGENTA MILLER  
A.B. DePauw University 1910.  
(October 17)
- OSCAR LONGFELLOW MILMORE  
A.B. George Washington 1910.
- SARAH LOUISE MONTGOMERY  
B.S. 1910.
- JESSIE ARCHIBALD MOORE  
A.B. Leland Stanford 1901.
- MARGARET BAKER MORISON  
A.B. Bryn Mawr 1907.
- EDITH MATILDA MORRIS  
A.B. 1911.
- LUCY MARNELLE MURDOCH  
A.B. Ohio Wesleyan 1899.
- ROBERT CORNELIUS MURRAY  
A.B. Amherst 1910.
- PITT SAMUEL MURRILL  
B.S. Virginia Polytechnic Inst. 1902,  
M.S. 1904.
- ISAAC NAGOURNEY  
A.B. C. C. N. Y. 1906.
- ZARITA NAHON  
A.B. N. Y. Normal Coll. 1910.
- GERTRUDE NEAL  
A.B. DePauw 1896.
- MARKS NEIDLE  
B.S. C. C. N. Y. 1911.
- ABRAHAM AARON NEUMAN  
B.S. 1909.
- HOWARD WEBSTER NUDD  
B.S. Temple Coll. 1907.
- LEONARD JOHN NUTTALL  
B.S. 1911.
- MARIAN OBERNDOFER  
A.B. 1911.
- MARJORIE O'CONNELL  
A.B. 1911.
- TAISUKE OGINO  
LL.B. Chuo Univ., Tokyo 1904.
- HARRY LEES OLDFIELD  
A.B. Brown 1910.
- CHARLOTTA HARRIET OLIN  
Ph.B. Buchtel 1904.
- ARTHUR FRANCIS O'MALLEY  
A.B. Dartmouth 1897.  
(October 17)
- MARIE SABSOVICH ORENSTEIN  
A.B. Swarthmore 1906.
- BERNARD ORMONT  
B.S. C. C. N. Y. 1909.
- PAULINE VAN DE GRAAFF L. ORR  
A.B. Miss. State Coll. for Women  
1898.
- ROSEMARY OWENS  
A.B. N. Y. Normal Coll. 1910.
- SEYMOUR PAUL  
JOSEPH EGLESTON PARKER  
A.B. Emory Coll. 1904.  
(October 17)
- JOHN SIMPSON PENMAN  
A.B. C. C. N. Y. 1884.  
Diploma Union Theol. Sem. 1887.
- WALTER WILLIAM PETTIT  
B.S. 1911.
- HELEN SARAH PHILLIPS  
A.B. 1909.
- HARRY PIERSON  
A.B. Lebanon 1900.
- WILLIAM WHATLEY PIERSON, JR.  
A.B. Alabama 1910, A.M. 1911.
- ELSIE PLAUT  
A.B. 1910.
- HARRY PRIMROSE PORTER  
A.B. Washington Coll. (Md.) 1905.
- RICHARD ROY BELDEN POWELL  
A.B. Rochester 1911.
- PERCY WITHERS PUNNETT  
B.S. Rochester 1911.
- BARBARA STORY QUIN  
A.B. Smith 1911.
- MAY KATHERINE QUINN  
A.B. 1908.
- LOUIS HENRY WILLIAM RABE  
A.B. Concordia 1907.
- ABRAHAM RAVICH  
A.B. C. C. N. Y. 1908.



- ANN ELIZABETH RAWLS  
A.B. Smith 1910.
- FRANCIS KETCHAM RAYNOR  
A.B. Cornell 1907.
- HENRY LEWIS READ  
A.B. Yale 1909.
- EARLE CLARENCE REEVES  
A.B. Indiana 1911.
- SAMUEL HORNER REGESTER  
Ph.B. Wanesburg Coll. 1907, A.M.  
1908.  
(October 17)
- JESSIE M. REYNOLDS  
A.B. Michigan 1901.
- EDWIN LEHMAN RICKERT  
A.B. Wooster 1901.  
(October 17)
- CATHERINE M. RIDER  
B.L. Swarthmore 1888.  
(October 17)
- HENRY ALSOP RILEY  
A.B. Yale 1908.
- FRANKLIN ROBBINS  
A.B. Wesleyan 1911.
- LOUIS HARRY ROBINSON  
A.B. 1910.
- AARON G. ROBISON  
A.B. C. C. N. Y. 1909.
- MARY MURIEL ROCHESTER  
A.B. N. Y. Normal Coll. 1908.
- FLORENCE HILDA RODEWIG  
Ph.B. Wooster 1911.
- MURIEL WARD ROGERS  
A.B. Vassar 1911.
- JOSEPH ROSENBERG  
A.B. C. C. N. Y. 1911.
- WILLIAM NEELY ROSS  
A.B. 1911.
- ELIZABETH ABBOTT ROWELL  
Ph.B. Colorado 1895.
- WORTLEY FULLER RUDD  
A.B. Richmond Coll. 1898, Ph.B.  
Univ. Coll. of Medicine 1902.  
(October 17)
- RALPH LESLIE RUSK  
A.B. Illinois 1909.
- UNA GERTRUDE RUTH  
A.B. Denver 1908.
- LOVINA BELLE SAEGER  
A.B. Allegheny 1911.
- JOHN CARFIELD SANBORN  
A.B. Oberlin 1908.
- MARY LOGAN SANDERSON (Mrs.)  
A.B. Central Univ. (Kentucky) 1908.  
(October 17)
- JESSIE CASSIDY SAUNDERS  
B.S. (Arch.) Cornell 1886.
- MAUDE G. SAYERS (Mrs.)  
A.B. Ohio Wesleyan 1903, A.M. 1903.  
(October 17)
- MORTIMER FREEMAN SAYRE  
E.M. 1907.
- SAMUEL DANIEL SCHMALHAUSEN  
A.B. C. C. N. Y. 1909.
- HOWARD ABRAHAM SCHOLLE  
A.B. Williams 1906.
- FREDERICK WILLIAM SCHOLZ  
A.B. 1911.
- EDNA DRAKE SCUDDER  
A.B. Wilson College 1895.  
(October 17)
- WILLIAM MOORE SEEL  
A.B. Temple Univ. 1909.
- CAROLINE EUSTIS SEELY  
A.B. 1911.
- FRANCES BERTHA SELKIN  
A.B. N. Y. Normal Coll. 1911.
- WINIFRED SIBLEY  
A.B. Colorado State Teachers Coll.  
1911.
- JAMES BUREN SIDBURY  
A.B. Trinity N. C. 1908.
- HERMAN SILVERMAN  
Ph.B. Yale 1906.  
(October 17)
- ISABEL SIMERAL  
Ph.B. Chicago 1905.  
(February 20)
- LAO GENEVRA SIMONS  
B.S. 1908.
- KATHERINE ABY SIMPSON  
B.S. 1911.
- EMILY FULLER SLEMAN  
A.B. Goucher Coll. 1905.  
(October 17)
- CHARLOTTE SMITH  
A.B. Minnesota 1910.
- CLARENCE J. SMITH  
A.B. Cornell 1909.
- GEDDES SMITH  
A.B. 1910.
- JANET MAUD SMITH  
Ph.B. Wisconsin 1901.
- SYBIL LAURA SMITH  
A.B. Smith 1904.  
(October 17)
- WILLIAM ALEXANDER SMITH  
A.B. Williams 1890.
- NELL VAUGHN SNODGRASS  
A.B. Milligan Coll. 1910.  
(February 20)

- CHARLES SPEARMAN  
B.S. Queen's Univ. 1910.
- HARRY FISHER STANDERWICK, JR.  
A.B. 1911.
- VERNON STAUFFER  
A.B. Hiram 1901.
- KEARNEY K. STEFFENSEN  
A.B. Utah 1911.
- WILLIAM COLSON STEUBING  
E.M. Michigan Coll. of Mines 1904.
- JUNIUS WOODS STEVENS  
Ph.B. Sytacus 1895.
- HAROLD VAN VREDENBURGH STORY  
A.B. 1910.
- ALBERT STOTLAR  
A.B. Boston Univ. 1898.  
(February 20)
- JAY SAMUEL STOWELL  
A.B. Oberlin 1909.
- AGNES STRACHAN  
A.B. California 1910.
- GRACE CLARK STRAIGHT  
A.B. Vassar 1897.  
(October 17)
- ALICE STRIBLING  
A.B. Converse Coll. 1894.
- TO-TAN SUN  
B.S. Mass. Inst. of Tech. 1911.
- SAMUEL WILLIAM TANNENBAUM  
A.B. 1910.
- AGENOR HENRY TANNER  
B.C. L. McGill 1906.
- HENRY BOWMAN TAYLOR  
E.M. 1906.
- ARTHUR PERRY THOMPSON  
B.S. Arizona 1909.
- ANDREW SAMUEL THOMSON  
Ph.B. Brown 1898.
- HENRY SEARS THOMSON  
A.B. Minnesota 1909.
- EDITH TIMBERLAKE  
A.B. Woman's Coll. of Baltimore  
1908.
- THOMAS MARTIN TODD  
A.B. Western Maryland Coll. 1909.
- EMILY PHILIPPINA TOPP  
A.B. N. Y. Normal Coll. 1909.
- KHALIL ABDULLAH TOTAH  
A.B. Clark Coll. 1911.
- ALTA MARY TOZER  
A.B. Vassar 1899.  
(October 17)
- GILBERT HAVEN TRAFTON  
Ph.B. Wesleyan 1898, M.S. 1901.  
(February 20)
- GRACE TRAVIS  
A.B. Mt. Holyoke 1910.
- WALDO BROMLEY TRUESDELL  
A.B. Harvard 1897.
- TSAI KNO TSAO  
E.M. Cornell 1909.  
(February 20)
- ANNE BLANCHARD TUFTS  
A.B. Radcliffe 1907.
- CHARLES JOSEPH TURCK  
A.B. Tulane 1911.
- GERTRUDE VAN AUKEN TYNDALL  
B.S. 1910.
- BUNYAN YAKS TYNER  
A.B. Wake Forest 1908.
- OLIVE ERMINA ULRICH  
A.B. Vassar 1911.
- LESTER JARECKY UNGER  
A.B. C. C. N. Y. 1909.
- ELDON L. USRY  
B.M.E. Iowa State 1904.
- JOSEPH A. VAETH  
A.B. Missouri 1903.
- ANNE SCHMELZEL VAN BUSKIRK  
A.B. 1911.
- CATHERINE STUART VANCE  
B.Ph. Wooster 1907.  
(October 17)
- MARVIN JAMES VAN WAGENEN  
B.S. 1911.
- LYMAN B. VEEDER  
A.B. Princeton 1910.
- ELIZABETH RICHARDSON WAITE  
A.B. Wellesley 1895.
- PETER MASUMI WAKATSUKI  
A.B. St. Paul's (Tokyo) 1900.
- ELLIE ALMA WALLS  
A.B. Fisk 1911.
- CHENG FU WANG  
Equiv. A.B. Imperial Univ. China  
1900.
- YINCHANG TSENSHAN WANG  
B.S. Chicago 1910.
- LOUIS WANN  
A.B. Wabash 1908.
- ETHEL GEORGIA WARD  
A.B. Western Reserve 1905.
- ELIZABETH MERROW WASHBURN  
A.B. Swarthmore 1911.
- MEYER WAXMAN  
A.B. N. Y. Univ. 1911.
- JAMES ALBERT WEAGLE  
A.B. King's Coll. (Nova Scotia) 1905.

- MARY LEE WEAKLAND  
A.B. Notre Dame Coll. (Baltimore)  
1909.
- NELSON ELLISMERE WEATHERLESS  
A.B. Howard 1893, LL.B. 1898,  
LL.M. 1900.  
(October 17)
- WALTER MOSES WEIS  
A.B. 1911.
- ELIZABETH ELLIOTT WELLINGTON  
A.B. Vassar 1901.
- MIRIAM ESTHER WEST  
A.B. Milton Coll. 1908.
- COLUMBUS CALLOWAY WHISENHUNT  
A.B. Indiana 1911.
- WALTER CHARLES LEWIS WHITE  
B.S. 1909.
- SUSAN WILLIAMS WIGHTMAN  
A.B. Vassar 1910.  
(February 20)
- FLORA WILBER  
B.S. 1910.  
(October 17)
- WILLIAM H. WILEY  
B.S. 1909.
- ERNEST WILLIAM WILFERT  
A.B. Cincinnati 1910.
- MYRON LAWSON WILLIAMS  
A.B. Texas 1908.  
[370]
- PHILIP BIRD WINN  
B.S. National Normal Univ.  
(Lebanon, O.) 1892.  
(October 17)
- CHARLES ADOLPHUS WIRTH  
A.B. C. C. N. Y. 1908.  
(October 17)
- MARY DOUGLAS WOMACK  
B.S. Adelphi 1899.
- GEORGE ARTHUR WOOD  
A.B. Amherst 1906.
- YOSHIHIRO YAMAKAWA  
Equiv. A.B. Kwansan 1908.
- MINNIE CLARE YARBOROUGH  
A.B. South Carolina 1909.
- FONG YEUNG  
A.B. Richmond Coll. 1909.  
(February 20)
- INA YOAKLEY  
B.S. 1910.
- JOHN WYCLIFFE YOST  
A.B. Dickinson 1903.
- JONATHAN LEO ZERBE  
B.S. Pennsylvania 1906.  
(February 20)
- RUDOLPH ZINSSER  
A.B. Princeton 1910.
- VIRGINIUS VICTOR ZIPRIS  
B.S. 1910.

### Master of Laws

- RICHARD GARVEY, Jr., B.S., LL.B., A.M.  
[1]

### Doctor of Philosophy

- DAVID ALPERIN  
Philosophiae Naturalis Licentiatius,  
Freiburg, 1902.  
Dissertation: Contribution to the  
knowledge of nucleoprotein meta-  
bolism with special reference to  
uricolysis and to the properties of  
uricase.
- BENJAMIN MCALESTER ANDERSON  
A.B. Missouri 1906, A.M. Illinois  
1910.  
Dissertation: Social value; a study  
in economic theory, critical and con-  
servative.  
(October 17)
- ABRAHAM S. ANSPACHER  
A.B. Cincinnati 1900.  
Dissertation: Tiglath Pileser III.  
(October 17)
- TSURU ARAI  
Equivalent A.B. Japan Woman's  
Univ. 1906.  
Dissertation: Mental fatigue.
- CHARLES RAYMOND ATKINSON  
A.M. 1910, A.B. George Washington  
University 1909.  
Dissertation: The committee on rules  
and the overthrow of Speaker Can-  
non.  
(October 17)

- CHARLES HOMER BEAN  
A.B. Nebraska 1899.  
Dissertation: The curve of forgetting.
- FLORENCE MARY BENNETT  
A.B. Vassar 1903.  
Dissertation: Religious cults associated with the Amazons.
- LOUIS EDWARD BISCH  
A.B. 1907, M.D. 1911.  
Dissertation: Biochemical studies of protagon and mucoid.
- LEONARD STOTT BLAKEY  
B.S. Beloit 1904.  
Dissertation: The sale of liquor in the South.
- ROY GILLISPIE BLAKEY  
Ph.B. Drake 1905, A.M. Colorado 1910.  
Dissertation: United States beet-sugar industry and the tariff.
- MILLEGE L. BONHAM, JR.  
A.M. 1910, B.Lit. Furman 1900.  
Dissertation: The British Consuls in the Confederacy.  
(October 17)
- ERNEST BREHAUT  
A.B. Dalhousie 1894, A.B. Harvard 1895, A.M. 1896.  
Dissertation: An encyclopaedist in the Dark Ages: Isidore of Seville.
- JACOB J. BRONFENBRENNER  
Dissertation: A biochemical study of the phenomenon known as complement-splitting.
- SAMUEL WINDSOR BROWN  
A.B. Leland Stanford 1907.  
Dissertation: Secularization of American education.  
(February 20)
- ERNEST BURNHAM  
Ph.B. Albion Coll. 1896, A.M. 1903.  
Dissertation: Two types of rural schools, with some facts showing economics and social conditions.
- ELIZABETH CHRISTINE COOK  
A.M. 1902, A.B. Smith 1899.  
Dissertation: Literary influence in Colonial newspapers, 1704-1750.
- ARTHUR JEROME CULLER  
A.B. Juniata Coll. 1908, B.D. Union Theol. Sem. 1911.  
Dissertation: Interference and adaptability.
- HARRIETTE MAY DILLA  
A.B. Michigan 1908, A.M. 1909.  
Dissertation: Political history of Michigan from 1865 to 1876.
- BERNARD OGILVIE DODGE  
Ph.B. Wisconsin 1909.  
Dissertation: Methods of culture and the morphology of the archicarp in certain species of the Ascobolaceae.
- HARRY LINN FISHER  
A.M. 1910, A.B. Williams 1909.  
Dissertation: The preparation and properties of 5-amino-6-quinoline-carboxylic acid, and some compounds derived therefrom.
- WALTER EUGENE FOSTER  
A.B. Williams 1899.  
Dissertation: Studies in archaism in Aulus Gellius.
- CLAUDE MOORE FUESS  
A.M. 1906, A.B. Amherst 1905.  
Dissertation: Byron as a satirist in verse.
- ALEXANDER OSCAR GETTLER  
A.M. 1909, B.S. C. C. N. Y. 1904.  
Dissertation: The balance of acid-forming and base-forming elements in foods, and its relation to ammonia metabolism.
- ALFRED NORTON GOLDSMITH  
B.S. C. C. N. Y. 1907.  
Dissertation: On the spectroscopic examination of positive rays isolated by transmission through thin partitions.  
(October 17)
- FRANK PIERREPONT GRAVES  
A.B. 1890, A.M. 1891, Ph.D. Boston Univ. 1892, Litt.D. Heidelberg Univ. (Ohio) 1897, LL.D. Hanover Coll. 1897.  
Dissertation: Peter Ramus and the educational reformation of the sixteenth century.
- HENRY MARION HALL  
A.M. 1909, A.B. Harvard 1899.  
Dissertation: English idylls of fishermen.
- MARSTON LOVELL HAMLIN  
A.M. 1909, A.B. Amherst 1908.  
Dissertation:  
I. The preparation of two derivatives of glucosamine.

- II. Spigeline, an alkaloid of *spigelia marilandica*.  
 III. Derivatives of 4-hydroxy-5-nitro-quinazoline.
- RALEIGH FREDERICK HARE  
 B.S. Alabama Polytechnic Inst. 1892, M.S. 1893.  
 Dissertation: A study of the chemistry of the carbohydrates of the prickly pear and its fruits.  
 (October 17)
- JACOB WITTMER HARTMANN  
 B.S. C. C. N. Y. 1901.  
 Dissertation: The Göngu-Hrolfs Saga.
- JOHN DIEDERICH HASEMAN  
 A.B. Indiana 1905, A.M. 1907.  
 Dissertation: Some factors of geographical distribution in South America.
- GEORGE EDMUND HAYNES  
 A.B. Fisk 1903, A.M. Yale 1904.  
 Dissertation: The negro at work in New York City.
- ELSIE WINIFRED HELMRICH  
 A.B. 1908, A.M. 1909.  
 Dissertation: The history of the chorus in the German drama.
- JOSEPH LINDSEY HENDERSON  
 A.M. 1906, A.B. West Virginia 1894.  
 Dissertation: Admission to college by certificate.
- JAMES JACKSON HIGGINSON  
 A.B. Harvard 1907, A.M. 1908.  
 Dissertation: The "Shepherd's Calendar" of Edmund Spenser.
- MILO BURDETTE HILLEGAS  
 Ph.B. Rochester 1897.  
 Dissertation: A scale for the measurement of quality in English composition by young people.
- ERNEST OTTO HOLLAND  
 A.B. Indiana 1895.  
 Dissertation: The Pennsylvania state normal schools and public school system.
- EDWARD FRANK HUMPHREY  
 A.M. 1909, A.B. Minn. 1903.  
 Dissertation: Politics and religion in the days of Augustine.
- MAY LELAND HUNT  
 B.L. Wisconsin 1897, M.L. 1898.  
 Dissertation: A Study of Thomas Dekker.  
 (October 17)
- JESSE EARL HYDE  
 A.M. 1907, A.B. Ohio State 1906.  
 Dissertation: The Waverly formations of central and southern Ohio.
- HESTER DONALDSON JENKINS  
 Ph.B. Chicago 1898, Ph.M. 1899.  
 Dissertation: Ibrahim Pasha, Grand Vizier of Sulieman the Magnificent of Turkey.  
 (February 20)
- MAX KAHN  
 A.M. 1911, M.D. Cornell 1910.  
 Dissertation: Biochemical studies of sulfocyanates.
- JOHN LEONARD KANTOR  
 A.B. 1908.  
 Dissertation: A biochemical test for free acid.
- WILLIAM HEARD KILPATRICK  
 A.B. Mercer 1891, A.M. 1892.  
 Dissertation: The Dutch schools of New Netherland and Colonial New York.
- VIKYUIN WELLINGTON KOO  
 A.B. 1908, A.M. 1909.  
 Dissertation: Alien claims on China.
- ARTHUR KLINE KUHN  
 A.B. 1895, A.M. 1896, LL.B. 1897.  
 Dissertation: A comparative study of the law of corporations with reference to the rights of creditor and stockholder.
- MATHILDE LOUISE LAIGLE  
 Brevet supérieur, Académie de Besançon, France.  
 Dissertation: Le livre des trois vertus et son milieu historique et littéraire.
- WILLIAM MORRIS LEISERSON  
 A.B. Wisconsin 1908.  
 Dissertation: Unemployment in the State of New York.  
 (February 20)
- LOUIS LEVINE  
 Testimonium maturitatis, Cherkassi, Russia 1903.  
 Dissertation: The labor movement in France.  
 (February 20)
- FREDERIC NYE LINDSAY  
 A.B. Yale 1889, B.D. 1894, A.M. 1903.  
 Dissertation: The Kerubim in Semitic religion and art.



- JOSEPH LIPKE  
B.S. 1905, A.M. 1906.  
Dissertation: Natural families of curves in a general curved space of  $n$  dimensions.  
(February 20)
- ESTHER LOWENTHAL  
A.B. Bryn Mawr 1905.  
Dissertation: English socialism 1820-40.  
(February 20)
- MATTHEW THOMPSON McCCLURE, JR.  
A.B. Washington and Lee 1904, A.M. Univ. of Virginia 1907.  
Dissertation: A study of the realistic movement in contemporary philosophy.
- HENRY HOWARD MARVIN  
B.S. Grinnell 1906.  
Dissertation: The selective transmission and the dispersion of the liquid chlorides.
- CHESTER ARTHUR MATHEWSON  
B.S. 1905, A.M. 1906.  
Dissertation: A study of some of the more important biochemical tests.
- ELY OTHMAN MERCHANT  
A.M. 1906, A.B. Amherst 1904.  
Dissertation: A comparison of American and European waterways with special reference to the factors influencing the development of water transportation.
- JULIA ELEANOR MOODY  
B.S. Mount Holyoke 1894, A.M. 1909.  
Dissertation: Observations on the life-history of two rare ciliates—*Spathidium spathula* and *Actinobolus radians*.
- ALEXANDER JOHN WILLIAM MYERS  
A.B. Dalhousie Univ. 1902, A.M. 1904, B.D. Presbyterian Coll., Halifax, 1907.  
Dissertation: The Old Testament in the Sunday School.
- WILLIAM FIELDING OGBURN  
A.M. 1909, B.S. Mercer 1905.  
Dissertation: Progress and uniformity in child labor legislation.
- FAYETTE T. OWEN  
A.M. 1905, A.B. Doane Coll. 1896, A.M. 1904.  
Dissertation: Part I. Molten hydrated salts as solvents for freezing-point method. Part II. The weight of the falling drop and the laws of Tate.
- ALBERT THEODORE POFFENBERGER, JR.  
A.M. 1910, A.B. Bucknell 1909.  
Dissertation: Reaction time to retinal stimulation; with reference to the speed of conduction through nerve centers.
- HUBERT McNEILL POTEAT  
A.B. Wake Forest 1906, A.M. 1908.  
Dissertation: Repetition in Latin poetry.
- DAVID EDGAR RICE  
A.B. Pennsylvania Coll. 1896, A.M. 1899.  
Dissertation: Visual acuity with lights of different colors and intensities.
- CHARLES LEONIDAS ROBBINS  
A.B. Kansas 1902, A.M. 1903.  
Dissertation: Teachers in Germany in the sixteenth century.
- WINIFRED JOSEPHINE ROBINSON  
A.M. 1904, B.S. Michigan 1899.  
Dissertation: A taxonomic study of the Pteridophyta of the Hawaiian Islands.
- EMILY CROMWELL SEAMAN  
A.M. 1905, B.S. Adelphi 1899.  
Dissertation: Biochemical studies of the effects of beryllium sulfate.
- LEWIS PARKER SICELOFF  
A.B. Central College 1900.  
Dissertation: Simple groups from order 2001 to order 3640.
- BENJAMIN ROY SIMPSON  
A.B. McMaster Univ. 1899.  
Dissertation: Correlation of mental abilities.
- BERTRAM GARNER SMITH  
A.B. Michigan 1907.  
Dissertation: The embryology of *cryptobranchus alleganiensis*.
- WILLIAM MACKEY SMITH  
Ph.B. Lafayette 1903.  
Dissertation: Simple infinite systems of plane curves. A study of isogonals, equitangentials and other families of trajectories.  
(February 20)
- WINIFRED SMITH  
A.M. 1907, A.B. Vassar 1904.  
Dissertation: The commedia dell'arte.

- LEILA CLEMENT SPAULDING  
A.M. 1901, A.B. Vassar 1899.  
Dissertation: The "Camillus" type in sculpture.  
(October 17)
- ROMIETT STEVENS  
B.S. 1907, A.M. 1908.  
Dissertation: The question as a measure of efficiency in instruction.  
(February 20)
- CHARLES ARTHUR STEWART  
A.B. 1906, A.M. 1907.  
Dissertation: The geology and ore-deposits of the Silverbell mining district, Arizona.
- FREDERICK TILNEY  
A.B. Yale 1897, M.D. Long Island Coll. Hosp. 1903.  
Dissertation: Contribution to the study of the hypophysis cerebri, with special reference to its comparative histology.
- JOHN WELHOFF TODD  
A.B. Indiana 1905, A.M. 1910.  
Dissertation: Reaction to multiple stimuli.
- ANDREW YU-YUE TSU  
A.M. 1910, A.B. St. John's Univ. Shanghai 1907.  
Dissertation: Spirit of Chinese philanthropy: a study in mutual aid.
- SOLOMON VINEBERG  
A.M. 1908, A.B. McGill 1906.  
Dissertation: Provincial and local taxation in Canada.
- ALLAN FERGUSON WESTCOTT  
Ph.B. Brown 1903, A.M. 1904.  
Dissertation: *New Poems* by James I of Scotland.  
(February 20)
- EDWARD EVERETT WHITFORD  
A.B. Colgate 1886, A.M. 1890.  
Dissertation: The Pell equation.  
(February 20)
- HAROLD EDWARD WOODWARD  
A.B. Amherst 1910.  
Dissertation: A study of surface tension of blood serum by the drop weight method.
- FREDERICK WILLIAM ZONS  
A.B. 1907, A.M. 1910.  
Dissertation: A new method, volumetric, for the determination of thorium in the presence of other rare earths and its application to the analysis of monozite sand.  
(October 17)

## HONORARY DEGREES

## Master of Science

SCHUYLER SKAATS WHEELER  
*Of the Class of 1883, School of Mines*

## Doctor of Science

GEORGE WASHINGTON GOETHALS  
*Colonel of Engineers, United States Army  
Chief Engineer of the Panama Canal*

## Doctor of Letters

GEORGE HAVEN PUTNAM  
*Publisher*

JOHN GRIER HIBBEN  
*President of Princeton University*

## Doctor of Sacred Theology

THE RIGHT REVEREND PHILIP MERCER RHINELANDER  
*Bishop of Pennsylvania*

Doctor of Laws

JOHN WILLIAM BURGESS

*Ruggles Professor of Political Science and Constitutional Law  
Dean of the Faculties of Political Science, Philosophy, Pure Science and Fine Arts*

OSCAR WILDER UNDERWOOD

*Representative from the State of Alabama  
Chairman of the Committee on Ways and Means in the Sixty-second Congress*

EDWARD DOUGLAS WHITE

*Chief Justice of the United States*

(Conferred December 4, 1911)

JOSEF SCHICK, LITT.D.

*Professor of English Philology in the University of Munich  
Kaiser Wilhelm Professor 1911-12*

GUSTAVE LANSON, LITT.D.

*Professor of French Literature in the University of Paris  
Visiting French Professor 1911-12*

Commencement Calendar, 1912

- May 2-28—Teachers College Exhibition.
- June 1—Barnard Senior Play; Teachers College River Day.
- June 2—Baccalaureate Service, Rev. Charles Edward Jefferson, Pastor of the Broadway Tabernacle of New York, Preacher.
- June 3—Columbia College Class Day; Senior Dance; Barnard College Senior Dance; Teachers College Senior Dance.
- June 3-8—Architectural Exhibition.
- June 4—Barnard College Ivy Day; Phi Beta Kappa Oration; Professor Woodbridge.
- June 5—Commencement: Conferring of Degrees and Award of Honors; Presentation of Well Head by Class of '87, College; Presentation of Clock in Kent Hall by Class of '12; Presentation of Loan Fund by Class of '87 Mines; Alumni Luncheons; Costume Parade; Baseball Game, Pennsylvania vs. Columbia; Beef-steak Dinner; Senior and Alumni Singing and Band Concert.
- June 6—Barnard College Class Day; Barnard Senior Banquet.

## FELLOWSHIPS, SCHOLARSHIPS, AND OTHER PROVISION FOR THE ASSISTANCE AND REWARD OF STUDENTS

**NOTE.** Unless otherwise provided, all stipends of Fellows and Scholars shall be paid in equal semi-annual instalments on the second Wednesday of each half-year. Before being entitled to receive instalment of his stipend, each Fellow and Scholar is required to report himself in writing to the Registrar as in residence, on or before the opening day of each half-year. Failure so to report may operate to vacate the Fellowship or Scholarship.

All Fellows and Scholars are required to pay all fees for matriculation, tuition, graduation, and for the use of the Gymnasium. The provisions regarding the maximum fee for the higher degrees and the statute concerning the sons of professors do not apply to them.

### General Regulations

The following regulations apply, unless the contrary is specifically stated, to the award of all fellowships and scholarships:

In each case application in writing, on a blank prepared for the purpose, must be filed with the Secretary of the University; for fellowships it should be filed on or before March 1; for University scholarships on or before April 1, and for other scholarships on or before May 1. Applications and documents received in support thereof later than these dates, or not distinctly indicating the name of the candidate and the fellowship or scholarship for which he applies, may fail of consideration. As an evidence of graduation, a printed certificate is preferable to the formal diploma itself, as there is risk that the latter may be lost or injured in transit.

The appointment is in each case for one year dating from July 1. Candidates will be notified as promptly as possible as to the success of their applications. Documents and letters submitted by the candidates are returned, but not letters written direct to the University. If the applicant wishes the documents which he has submitted returned to him by mail he should enclose postage for the purpose, otherwise they will be held until called for. Documents will not be preserved for more than one year from the date of application.

All Fellows and Scholars, as hereinafter provided, shall reside in New York City or its vicinity during the academic year, unless permission be granted by the Council to study elsewhere. No Fellow or Scholar may pursue a professional or technical course of study during his term.

The conditions under which the appointment may be granted are indicated in the following paragraphs:

## UNIVERSITY FELLOWSHIPS

For awards, see p. 474.

Twelve fellowships, of the value of \$650 each, known as "University Fellowships," are awarded annually by the University Council at its stated meeting in April, to those graduates of colleges and scientific schools, not over thirty years of age, who show themselves especially fitted to pursue courses of higher study and original investigation. The candidate must give evidence:

(a) of a liberal education, such as a diploma from a college or scientific school of good repute;

(b) of decided fitness for a special line of study, such as an example of some scientific or literary work already performed;

(c) of upright character, such as a testimonial from some instructor.

A Fellow may be reappointed for reasons of weight, but not for more than two terms of one year each.

As these fellowships are awarded as honors, those who are disposed, for the benefit of others, to waive the pecuniary emolument, may do so, and still have their names retained on the list of Fellows. In such cases additional University Fellows may be appointed.

Vacancies will be filled in the same manner in which original appointments are made.

Each Fellow is expected to perform such duties as are allotted to him in connection with a course of study leading to the degree of Doctor of Philosophy. He is expected to devote his time to the prosecution of special studies under the direction of the head of the department in which his major subject lies, and before the close of the academic year to give evidence of progress by the preparation of a thesis, the completion of a research, the delivery of a lecture, or by some other method.

No Fellow shall be allowed to accept remunerative employment or to give instruction or assistance in any department of the University except by permission of the President, and the acceptance of any such employment, without such permission, shall operate to vacate the fellowship.

## Special Fellowships.

Unless otherwise specified, the regulations as to the mode of application for the following fellowships, and the conditions governing their award and tenure, are the same as those for University fellowships (see *ante*). Candidates should indicate clearly upon their application blanks the fellowship for which they are applicants.

## Tyndall and Barnard Fellowships

The Tyndall Fellowship for the Encouragement of Research in Physics, endowed by Professor John Tyndall, annual value \$648, and the Barnard Fellowship for Encouraging Scientific Research, endowed by the bequest



of the late President Barnard, annual value \$400, are awarded annually under the following conditions: The Tyndall Fellowship is available for one or more American pupils who may have shown decided talent in physics, preferably such as shall express the determination to devote their lives to the advancement of theoretic science and original investigations in that department of learning, and is awarded either to a graduate of the University or to a student in it (not necessarily a candidate for a degree) upon the recommendation of the head of the Department of Physics. The Barnard Fellowship is awarded upon the joint recommendation of the Faculties of Columbia College, Applied Science, and Pure Science to a graduate of any one of them who, having shown decided aptness for physical investigation, is disposed to devote himself thereto for some years continuously. The recommendation must in each case be made to the President on or before April 1. The appointment is for the term of one year, but the incumbent shall be eligible to reappointment.

It is the duty of a Tyndall or Barnard Fellow to devote himself faithfully to the investigation of some subject in physical science at this, or some other University, under the supervision of some known physicist approved by the President and the head of the Department of Physics. He shall make a quarterly report, certified to by the physicist superintending and directing him, to the President, giving an account of the work in which he has been engaged during the academic or calendar quarter preceding. For awards, see page 474.

#### Adams Research Fellowship

The Ernest Kempton Adams Research Fellowship, founded by Mr. Edward Dean Adams, in memory of his son, Ernest Kempton Adams, E.E. '97, A.M. '98, is of an annual value of \$1250. The appointment may be made from among the teaching staff, alumni, or students of Columbia University. The incumbent of the fellowship shall prosecute researches either in Columbia University or elsewhere, in the physical sciences, in psychology, or in their practical applications. The results of the investigations of the incumbent of the fellowship are published and distributed by the University under the title of "Researches of the Ernest Kempton Adams Research Fellows of Columbia University." For awards, see page 474.

#### Class of '70 Fellowship

There is a fellowship known as the "Class of '70 Fellowship," of the annual value of \$500, which, after the expiration of the term of the present incumbent, shall be filled by the University Council, subject to such regulations as may be prescribed. For awards, see page 475.

#### George William Curtis Fellowship

The George William Curtis Fellowship is awarded for a term of two

years upon the recommendation of the Faculty of Political Science in every third year, the next award being July 1, 1912. The Curtis Fellow shall be entitled to receive during his incumbency the net income of the endowment of \$10,000 (in 1908-09, \$600 annually), accruing during a period of three years, and proportionately for any part of the term.

Candidates shall submit an essay or address on the "Immediate Duty of the American Citizen," in addition to complying with the requirements of candidates for University Fellowships.

The Fellow shall devote himself to the study of the science of government, with a special view to its application to the then existing condition of the United States or to the State or City of New York; and at or before the conclusion of his second year he shall publish (a) a monograph satisfactory to the Faculty of Political Science on some subject relating thereto, and (b) a brief sketch of George William Curtis as a citizen and orator, showing that he has familiarized himself with the life and character of the man whose memory is to be perpetuated by the fellowship which he has enjoyed. For awards, see page 475.

#### Drisler Fellowship

The Henry Drisler Fellowship in Classical Philology, established in 1894 in commemoration of the semi-centennial in the service of the University of Professor Henry Drisler, A.B. 1839, is of the annual value of \$650, and is open to Bachelors of Arts of this University, or some other institution of equivalent standing, who have studied Greek and Latin throughout their undergraduate course, and who have an adequate knowledge of French and German. They must present testimonials from their instructors in Greek and Latin as to the quality of their work, and give evidence of fitness for advanced study and research, either by a special examination, or by an essay embodying the results of research in some department of classical study.

The appointment is made by the University Council on the recommendation of the Department of Classical Philology. Recommendations should reach the President on or before April 1, and reappointments may be made for not more than two terms of one year each.

The Fellow must study at this University under the direction of the professors of Greek and Latin, unless permitted by the Council to spend a year in some foreign university, or in the American School of Classical Studies at Athens, or in the American School of Classical Studies at Rome. For awards, see page 475.

#### Garth Fellowship

The Granville W. Garth Fellowship in Political Economy is awarded each year. The successful applicant for the fellowship shall be entitled to receive the net annual income of the capital sum of the Granville W. Garth Memorial Fund of \$16,250. See page 506. For awards, see page 475.

### Gottsberger Fellowship

The Gottsberger Fellowship, awarded every second year, is open only to candidates who, having first taken a degree in Columbia College, have been for not less than two years resident graduate students of Columbia University, taking also the degree of Master of Arts. The holder may, with the consent of the professor in charge of his major subject of study, and with the approval of the President, pursue his studies abroad. The Fellow so appointed receives the net income for two years of the capital sum of \$9500 constituting the Cornelius Heeney Gottsberger Scholarship Fund. For awards, see page 475.

### Mosenthal Fellowship

The Mosenthal Fellowship, established in memory of the late Joseph Mosenthal, is designed to aid talented students of musical composition, either men or women, in the study of their art. The stipend is the net income for two years of the capital sum of \$7500. It is awarded every second year by the Council upon the recommendation of the Professor of Music, and is tenable for one year.

Applicants are required to show a thorough knowledge of harmony and of counterpoint and some ability to compose, by submitting a number of original compositions in support of their applications.

The holder must devote himself to the study of musical composition at Columbia University, or, with the approval of the President and the Professor of Music, abroad. In the former case, he shall be required, in addition to his studies in Music, to pursue such other studies in at least two departments of the University as the Professor of Music may direct. In either case, the Fellow shall submit, at such times as the Professor of Music may designate, the results of his work in musical composition. For awards, see page 475.

### Proudfit Fellowship in Letters

The Alexander Moncrief Proudfit Fellowship in Letters for the encouragement of the study of English Literature, founded by the bequest of Alexander Moncrief Proudfit, is open to any son of native-born American parents who shall have taken the degree of Bachelor of Arts after three years' residence in Columbia College, and who shall, while enjoying such fellowship, remain unmarried. The appointment is made by the Council upon the joint recommendation of the professors in the Department of English. The Fellow shall be entitled to receive during his incumbency the net income of the sum of \$13,875. He shall carry on his studies and research at Columbia University, or elsewhere, under the direction of the professors in the department named. For awards, see page 476.

### Schiff Fellowship

The Schiff Fellowship in Political Science, the gift of Mr. Jacob H.

Schiff, is of an annual value of \$600. The appointment is made each year by the Council upon the recommendation of the Faculty of Political Science, which recommendation is based upon the nomination following: On or before April 1 of each academic year the Faculty of Political Science shall propose to Mr. Jacob H. Schiff while living the name of a suitable person for nomination by him. The conditions to govern the nomination after Mr. Schiff's death will be found in the University Statutes. For awards, see page 476.

#### **Carl Schurz Fellowship**

The Carl Schurz Fellowship for the Study of the German Language and Literature is awarded, in every even-numbered year, by the Council, upon the recommendation of the professors of the Department of Germanic Languages and Literatures. The Fellow shall be entitled to receive the net income for two years of the capital sum of \$10,000, constituting the endowment contributed by citizens of New York, in commemoration of the seventieth birthday of Carl Schurz. The appointment may be renewed for reasons of weight for a further term of one year, but without additional stipend.

Candidates must present testimonials as to their zeal and success in the study of German, and must by an essay or published treatise give evidence of their fitness for a wider and more profound study of the languages and literatures and for independent research. They must also have a sufficient knowledge of Latin and French to use these languages readily in the prosecution of their studies. The holder must study at Columbia University under the direction of the Department of Germanic Languages and Literatures, unless permitted by the Council to study at some German university. For awards, see page 476.

#### **William Mitchell Fellowship**

The William Mitchell Fellowship shall be awarded annually by the Trustees, on the nomination of the Faculty of Columbia College, to a graduate of the College who purposes entering upon a course of advanced study in letters or science, and who is adjudged by the Faculty capable of attaining distinction in such courses of study. In determining the appointment, preference shall be given to members of the graduating class and to graduates of not more than three years' standing. The Fellow so appointed shall be entitled to receive the net income of the fund of \$10,000, bequeathed by Benjamin D. Silliman, and he is permitted to study at Columbia University or elsewhere. For awards, see page 476.

#### **Samuel Anthony Goldschmidt Fellowship**

The Samuel Anthony Goldschmidt Fellowship in Chemistry is awarded each year by the University Council in the same manner as University Fellowships are awarded and subject to the same regulations. The



Fellow shall be entitled to receive the annual net income of \$16,250, the gift of George B. Goldschmidt, a memorial to Samuel Anthony Goldschmidt of the class of 1871. For awards, see page 476.

#### Richard Watson Gilder Fellowship

Two or more Gilder Fellowships shall be awarded annually by the University Council upon the recommendation of the Faculty of Political Science to graduates of any college or university, or to students having exceptional qualifications. The holders of the fellowships shall devote themselves to the investigation of political and social conditions in this country or abroad; to the examination and analysis of the practical working of legislation enacted for the purpose of improving civic conditions or to practical civic work, in accordance with plans approved by the Professor of Politics and the Professor of Sociology. It shall be the duty of each Gilder Fellow to make a written report at least semi-annually to such professors, giving an account of the work on which he has been engaged. Each of such Fellows shall receive such portion of the income of the Richard Watson Gilder Fund for the Promotion of Good Citizenship as the Trustees may from time to time determine, provided that a portion of the income of the fund may in the discretion of the Trustees be set aside to meet the cost of publishing the results of the investigations and studies of such Fellows, and such publications shall bear the title of the fund. A Fellow appointed under this section may be reappointed for two additional years, and no more. For awards, see page 476.

#### Annual Fellowships

The Treasurer may receive gifts of money for fellowships for one year or more provided that no fellowship shall be created for less than \$500 per annum. Such fellowship shall be filled by the University Council, subject to such regulations as may be prescribed.

#### UNIVERSITY SCHOLARSHIPS.

Twenty University Scholarships, of an annual value of \$150, are awarded by the University Council at the regular meeting in May to students under the Faculties of Political Science, Philosophy, and Pure Science, who are not over thirty years of age, under the following regulations:

1. They are open to all graduates of colleges and scientific schools whose course of study has been such as to entitle them to be enrolled at Columbia as candidates for one of the higher degrees.
2. They are tenable for one academic year, with a possibility of renewal for one year longer.
3. Applications should be filed in writing, not later than April 1.
4. In the awards preference will be given to those candidates for University Fellowships who have failed of appointment after having been recommended therefor by any faculty or department.



5. University Scholars will be required to enrol themselves as candidates for a higher degree and to pursue a regular course of study leading thereto.

6. Additional Scholars may be appointed by the Committee to fill any vacancies occurring otherwise than by the graduation of an incumbent.

7. A University Scholar may relinquish the income thereof without waiving his right to be designated as a University Scholar.

For awards, see page 477.

#### President's University Scholarships

Eight additional scholarships, known as the President's University Scholarships, are awarded by the University Council, governed by the regulations attached to the University Scholarships, and by such further regulations as may from time to time be adopted.

#### University Scholarships for Women

Four University Scholarships, known as the Curtis University Scholarships, will be awarded annually to women students under the Faculties of Political Science, Philosophy, and Pure Science. These scholarships are awarded under the same regulations as those governing the University Scholarships. For awards, see page 477.

#### Richard Butler Scholarship

The Richard Butler Scholarship, tenable for one academic year, with the possibility of renewal for each of two years more, for the benefit of male students born in the State of Ohio, is open for competition to qualified candidates who propose to enter any college or school of the University (except Teachers College or the College of Pharmacy). The annual value (to be applied to tuition charges) is the income of a fund of \$5000, given for the establishment of the scholarship.

Applications should be made under the same regulations as those for University Scholarships. For awards, see page 477.

#### Pulitzer Scholarships

Through the generosity of the late Mr. Joseph Pulitzer, male graduates of the public high-schools of the city of New York, not to exceed forty at any time, are awarded scholarships upon competitive examination. Each scholarship so awarded may be held for a period of four years in the College or in any department of the University except the Medical School, Teachers College, and the College of Pharmacy. The scholarship will be withdrawn if at any time the holder fails to maintain a satisfactory standard in his academic work. During his term the scholar receives from Mr. Pulitzer the sum of \$250 a year over and above the cost of his tuition. Full information regarding the conditions under which these scholarships are awarded will be furnished, upon application, by the Secretary of the University.

### John D. Jones Scholarship

The Wawepex Society makes annual provision for a scholarship amounting to \$200 and including the use of a table at the biological laboratory at Cold Spring Harbor, L. I. The award is made by the Council upon the recommendation of the Department of Zoölogy. For awards, see page 477.

### Annual Scholarships

The Treasurer may receive gifts of money for scholarships for one or more years, provided that no such stipend shall be less than the annual tuition fee of the college or of the school in which it is provided.

### Benefactors Scholarships

Sixty-three scholarships of tuition value were established by the Trustees in 1899 in recognition of the liberal gifts for the purchase of the site on Morningside Heights received from J. Pierpont Morgan, Cornelius Vanderbilt, A. A. Low, R. Fulton Cutting, Alfred Corning Clark, Samuel Sloan, Henry Parish, Jacob H. Schiff, and others. These scholarships have been assigned to different faculties as follows: Columbia College, 20; Applied Science, 27; Law, 16.

### Medals and Prizes

Essays submitted in competition for any of the following should, unless otherwise indicated, be submitted to the Secretary of the University not later than May 1, in the year of award. The essays should be signed fictitiously and should be accompanied by a sealed envelope containing the author's name and address. The awards are announced at Commencement and, unless otherwise indicated, are annual.

### Barnard Medal

A gold medal of the value of \$200 established by the provisions of the will of President Barnard and endowed by him, known as the "Barnard Medal for Meritorious Service to Science," is awarded quinquennially (next award 1915) to such person, if any, whether a citizen of the United States or any other country, as shall within the five years next preceding have made such discovery in physical or astronomical science, or such novel application of science to purposes beneficial to the human race, as in the judgment of the National Academy of Sciences of the United States shall be esteemed most worthy of such honor. For awards, see page 479.

### Bunner Medal

The H. C. Bunner Gold Medal, established by the friends of the late Henry Cuyler Bunner, or its equivalent in cash, is awarded to the candidate for a Columbia degree who shall present the best essay on an assigned subject in American literature. The award will be made by a committee to be appointed by the President. The subject for the essays to be handed in on May 1, 1913, is "American Dialect Poetry." For awards, see page 479.

### Bennett Prize

A prize established through a gift of \$1000 from Mr. James Gordon Bennett may be awarded by the Faculty of Political Science for the best essay upon some subject of contemporaneous interest in the domestic or foreign policy of the United States. The competition is open to students not holding a baccalaureate degree who pursue courses amounting to six hours a week in the School of Political Science. The subject for 1913 is "Amendments to State Constitutions." For award, see page 479.

### Loubat Prizes

Mr. Joseph F. Loubat has endowed two prizes of \$1000 and \$400, respectively, for the best works published in the English language upon the history, geography, archaeology, ethnology, philology, or numismatics of North America. The next award will be made in 1913. Competition is open, under the deed of gift, to all persons, whether connected with Columbia University or not, and whether citizens of the United States or of any other country. No treatise shall be eligible for the purposes of the competition except such as relate to the topics involving antiquarian research, or that refer to events prior to 1776. In order to insure consideration of their works, authors are invited to send copies to the President of Columbia University not later than April 1 of the year in which the prize is to be awarded; but the competition will not be restricted to works thus submitted. For names of the Committee of Award for 1913, and for further details, address the Secretary of the University. For awards, see page 479.

### Grant Squires Prize

The Grant Squires Prize, the income for five years of a fund of \$1000, established by Grant Squires, A.B. '85, LL.B. '87, is awarded at the close of every quinquennial period, to such graduate conducting an original investigation of a sociological character as shall be adjudged most worthy by a Committee of Award, consisting of the President, the Professor of Sociology, and one of the Professors of Political Economy appointed

by the Faculty of Political Science. The next award will be in 1915. Such award shall be deemed to be a recognition of scientific ability and achievement, as well as an encouragement of research. For awards, see page 479.

#### Toppan Prize

A prize known as the Robert Noxon Toppan Prize, the income of an endowment of \$4000, in memory of Robert Noxon Toppan, LL.B. '61, is awarded annually to the member of the School of Law or of Political Science who shall pass the best written examination upon a paper prepared by the Professor of Constitutional Law. For awards, see page 479.

#### Earle Prize in Classics

A prize of \$50 established in memory of Mortimer Lamson Earle, Instructor in Greek in Barnard College from 1889 to 1895 and from 1898 to 1900, and Professor of Classical Philology from 1900 to 1905, is open for annual competition to all candidates for the degree of Bachelor of Arts. It will be awarded partly on the basis of the regular work of the year in Greek and in Latin, partly on the basis of a special examination held in May or June. The special examination will cover specified portions of Greek and Latin literature, sight-reading in Greek and in Latin, and prose composition in Greek and in Latin. For 1913 the special subject will be Thucydides, Book I (through chapter 138) and Lucan, Book VII. For awards, see page 479.

#### Prizes of the New Jersey Alumni Association

Two prizes of \$50 each are awarded annually by the New Jersey Alumni Association to the New Jersey students who pass the best entrance examinations to Columbia College and the Schools of Mines, Engineering, and Chemistry, respectively; with the proviso that before the award these students shall complete satisfactorily one half-year of academic work. For awards, see page 479.

#### Caroline Phelps Stokes Prize

A prize of \$40, to be known as the Caroline Phelps Stokes Prize, shall be awarded annually to that student who having been regularly enrolled in Columbia College, or Barnard College, or Teachers College as a candidate for an academic degree for not less than one academic year shall be deemed to have written the best essay upon the rights of man as the committee on selectors shall determine.



### Loan Funds

There are four funds (the Schiff, the Shoemaker, the Payne, and the Class of 1887 School of Mines Funds) available for short-term loans to needy students, which may be drawn upon by permission of the President.

### Scholarships and Prizes in Columbia College

Seventy-two scholarships, of the annual value of \$150 each, are open for competition in Columbia College. All scholarships are intended to be academic honors. Award is made, with the exception of the scholarships depending upon entrance examinations, by the Committee on Scholarships. Unless otherwise indicated, application for award for each year of incumbency must be made on or before May 1, on blanks furnished by the Secretary of the University. Awards will be announced not later than July 1.

No student who has incurred serious academic censure, or who obtains leave of absence for the year of appointment, will be considered for re-appointment. Failure to maintain a grade of at least C in all courses taken may, and in the case of competitive scholars will, vacate the scholarships. Vacancies may be filled at the discretion of the Committee. Payment of one or both instalments of the stipend may be withheld if the student proves undeserving.

The stipend of the scholarships is sufficient to pay the tuition fees of a student electing not more than 17 points in Columbia College. Students permitted by the Dean to take more than 17 points or to elect professional courses must pay the difference between the amount of the scholarship and the charge fixed by the statutes for the courses elected.

**Section I—Competitive Scholarships** awarded, not later than July 15 in the order given, by the Committee on Admissions to those qualified Freshmen who pass in June the best entrance examinations in subjects aggregating the fifteen units requisite for admission. The examination may be taken at any point where examinations are held by the College Entrance Examination Board. No applications are required from candidates for first appointment. Reappointments are made under the general regulations of the Committee on Scholarships.

Alumni Competitive Scholarships.....4

Founded by the Trustees in 1890, one awarded annually.

For awards, see page 480.

Hewitt and Harper Scholarships (2 each).....4

Endowed by the gift of Abram S. Hewitt, LL.D., of the Class of 1842, and by the bequest of Joseph W. Harper, A.M., of the Class of 1848. One open annually for competition to graduates of New York City high-schools.

For awards, see page 480.



## Brooklyn Scholarships.....12—20

Founded by the Trustees in 1895, in recognition of ex-President Low's gift of a memorial building for the University Library. Three are open for competition annually to residents of Brooklyn trained either in the public or the private schools of that borough.

For awards, see page 480.

## Louis K. McClymonds Scholarships

The Louis K. McClymonds Scholarships (2) of the annual value of \$650, maintained by Mrs. Annie K. McClymonds in memory of her late husband, are open to those candidates for the degree of A.B. or B.S. who shall have satisfactorily completed the requirements for admission, and who in the judgment of the Faculty of Columbia College shall be deemed most deserving of appointment. Other things being equal, preference shall be given to sons of American-born parents who have no other means of providing for their tuition and living expenses during the academic year. For awards, see page 480.

Section II—General Scholarships awarded to applicants whose record for ability and scholarship obtained either before or after matriculation gives evidence of special fitness for the course of study they wish to pursue. Candidates in their first year of residence at Columbia University must be strongly recommended by the college or school from which they have come, and have shown marked proficiency or promise in college work. Students not in need of financial aid cannot be considered as applicants, nor can those who, through physical, mental, or moral weakness, give little promise of future usefulness.

## A. Open to members of any class:

Faculty Scholarships established by the Trustees.....	6
Beck Scholarship.....	1

Established in recognition of the liberality of Charles Bathgate

Beck, A.B. 1877, LL.B. 1879.

Campbell Scholarships (see page 504).....	2
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Class of 1848 Scholarships (see page 504).....	2
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Scholarships of the Society for Promoting Religion and Learning...	8—19
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Founded and awarded by this Society.

B. Open only to Freshmen. The requirements for admission must be completed before matriculation. For award after entrance, applications should be filed not later than October 1, 1912, nor February 16, 1913. In general, awards will not be made later than December 1 or March 1, respectively.

Schermerhorn Scholarships.....	5
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Endowed by John Jones Schermerhorn, A.B. 1825.

Moffat Scholarships.....	2
Endowed by William B. Moffat, A.B. 1838, M.D. 1842.	
Stuart Scholarships (see page 501).....	2
Alumni Association Scholarships.....	4-13
Established by the Trustees in recognition of the interest that the Alumni Association has always shown in the affairs of the College.	
Benefactors Scholarships (see p. 458) Morgan (5), Vanderbilt (5), A. A. Low (3), Cutting (2), Clark (2), Sloan (1), Parish (1), Schiff (1).....	20-72

### Prize of the Alumni Association

A prize of fifty dollars in money or its equivalent "to the most faithful and deserving student of the graduating class" was established in 1858 by the Association of the Alumni of Columbia College. The graduating class selects the incumbent from three names submitted to it by the Faculty; or if, ten days prior to Commencement, the class should notify the President of the University of its failure to make a selection, the award may be made by the Faculty. For awards, see page 480.

### Chanler Historical Prize

By the bequest of J. Winthrop Chanler, A.B. '47, the income of \$1000 is awarded annually, on Commencement Day, to the member of the graduating class of Columbia College who, in the judgment of the Faculty, shall be the author of the best original manuscript essay on the history of civil government in America, or some other historical subject, the subject for 1913 being "Efforts at Conciliation by the British Government during the Revolution." For awards, see page 480.

### Curtis Medals

An endowment fund of \$1000 established by the late Samuel Putnam Avery, an associate of George William Curtis in the work of Civil Service Reform, provides for the award of two medals of gold and silver, or the equivalent in cash, to students in Columbia College for excellence in public delivery of English orations. Competitors must be either third- or fourth-year students in regular standing, or in exceptional cases, and with permission of the Dean, special students taking corresponding courses amounting to not less than 12 hours a week. The Department of English publishes about November 1 a list of subjects for the competition. Subjects not on the list may be chosen with the consent of the department provided that application be made not later than December 1. The contestants will be selected by the department at a preliminary competition which will not be open to the public. The final public competition will be held not less than two weeks later. The award will be made by judges appointed by the President. For awards, see page 480.

## General Theological Seminary Prizes

Regulations as to the Seminary prizes adopted by the Protestant Episcopal Society for Promoting Religion and Learning in the State of New York, at a stated meeting held on April 25, 1900:

Notice shall be given every year of the conditions of the prizes under the old regulations (see *Announcement of the College for 1900-01*, page 72), and applications invited. Wherever the conditions of the preceding competition show that one or both of the prizes have not been taken for lack of applicants, notice shall at the same time be given of the competition for the prize or prizes thus open under the new regulations set forth each year in the *Announcement of Columbia College*.

The Society's Greek Seminary Prize amounts to \$30 and the Society's English Prize to \$20.

## John Dash Van Buren, Jr., Prize in Mathematics

A prize known as the John Dash Van Buren, Jr., Prize in Mathematics was established by Mrs. Louis T. Hoyt in memory of her nephew, John Dash Van Buren, Jr., a member of the Class of 1905. The annual income of \$5000 is awarded to the candidate for an academic degree who passes the best examination in analytical geometry, differential and integral calculus, and in such additional subjects as the Department of Mathematics may prescribe. For awards, see page 480.

## Charles M. Rolker, Jr., Prize

A prize to be known as the Charles M. Rolker, Jr., Prize, to be publicly awarded on Class Day, is provided for by a fund of the same name, the gift of Mrs. C. M. Rolker in memory of her son, Charles M. Rolker, Jr., of the Class of 1907. The income of the fund is to be awarded to the member of the graduating class of Columbia College deemed by his classmates the most worthy of special distinction as an undergraduate student, because of scholarship, participation in student activities, pre-eminence in athletic sports, or in any combination of these. For awards, see page 481.

## Albert Marion Elsberg Prize

A prize to be known as the Albert Marion Elsberg Prize, established by Mrs. Albert Elsberg in memory of her son Albert Marion Elsberg of the class of 1905, shall be awarded annually to that student who, having been regularly enrolled in Columbia College as a candidate for a degree for not less than one academic year, shall be recommended by the Department of History for excellence in modern history. The prize shall consist of a medal and, at the option of the winner, \$50 or books having that value.

## Award of Honors, Columbia College, 1911

For awards, see page 481.

### Scholarships and Prizes in the School of Law

Twenty-one scholarships of the annual value of \$150 each are available annually for award to candidates for the degree of Bachelor of Laws standing in need of pecuniary aid and whose record for ability and scholarship gives evidence of special fitness for the work of the school.

The scholarships will be awarded by the Faculty at its meeting in June, immediately preceding Commencement. Scholarships not allotted at the June meeting, or becoming vacant, may be filled by the Faculty at its discretion.

*Benefactors Scholarships:* Eight Morgan and eight Vanderbilt Scholarships, known as Benefactors Scholarships (see p. 458), may be awarded to students who have been in the school for at least one year.

*Faculty Scholarships:* Four Faculty Scholarships may be awarded to members of any class.

*Beck Prize Scholarship:* The Charles Bathgate Beck Prize Scholarship is awarded to the first-year candidates who shall pass the best examination in the subjects relating to Real-Estate Law. The holder shall, provided he remains a member of the school, receive one year's income of the prize fund established by the will of Charles Bathgate Beck in equal semi-annual instalments, during the two years following the award. If two or more students pass examinations of equal merit, the income of the fund may be divided. For awards, see page 481.

#### Convers Prize

A prize, known as the E. B. Convers Prize (the annual income of the sum of \$1000), has been established in the School of Law in memory of E. B. Convers, of the Class of 1866. This prize will be awarded annually to such member of the graduating class in the Law School as may write the best original essay on some legal subject to be chosen from a list of ten subjects prepared each year by the Faculty of Law or on any other legal subject approved by the Faculty. For award, see page 481.

#### Ordronaux Prize

A prize to be known as the Ordrónaux Prize in Law shall, by vote of the Faculty, be awarded annually to the candidate for the degree of Bachelor of Laws of at least one year's standing on the basis of general proficiency in legal study. For award, see page 482.

### Fellowships, Scholarships and Prizes in the College of Physicians and Surgeons

#### Alumni Association Fellowships

Provision is made annually by the Alumni Association of the College of Physicians and Surgeons for three fellowships, tenable for one year and of an annual value of \$500, open to graduates who have shown special aptitude for scientific research in the Departments of Anatomy,



Physiology, and Pathology. Appointments are made by the Executive Committee of the Alumni Association from candidates presented by the Professors of Anatomy, Physiology, and Pathology.

Incumbents are expected to devote themselves to scientific research in the department which they may elect, either at Columbia University, where they enjoy free tuition and the privileges of the laboratories, or in other institutions either here or abroad, at their own expense, and at the end of the year's work to present to the Association a thesis containing evidence of independent or original work in their special department. For awards, see page 482.

#### Proudfit Fellowship in Medicine

The Maria McLean Proudfit Fellowship, endowed by the late Alexander Moncrief Proudfit, A.B. '92, for the encouragement of advanced studies in medicine, is open to any son of native-born American parents, a graduate in medicine, who shall pursue advanced studies in internal medicine under the direction of the Medical Faculty of the University, and who shall, while enjoying such fellowship, remain unmarried, and shall be appointed by the University Council upon the recommendation of the Faculty of Medicine. Appointment shall be made every four years, upon terms to be designated by the Faculty. The Fellow shall carry on his studies under the direction of the Faculty of Medicine. For awards, see page 482.

#### Abram Dubois Fellowship

The Abram Dubois Fellowship, established in 1910, is open to a graduate of the School of Medicine who shall have satisfactorily completed a term of one year or more, the whole or greater part of which shall have been devoted to the study of diseases of the eye as interne in a hospital in New York, or elsewhere, approved by the Committee on Award. The award is made annually, but the holder may be continued in the fellowship, if no equally worthy candidate presents himself. The incumbent is restricted to clinical and laboratory study of the subject of diseases of the eye in foreign or American universities.

#### Alonzo Clark Scholarship

By the will of the late Alonzo Clark, M.D., LL.D., for many years President of the College of Physicians and Surgeons, and Professor of Pathology and Practical Medicine, it has been placed in the power of the Faculty to bestow a scholarship, with an income of about \$700 a year, for the purpose of promoting the discovery of new facts in medical science. For awards, see page 482.

#### George Blumenthal, Jr., Scholarship

There shall be a scholarship or scholarships open to qualified candidates maintained in the College of Physicians and Surgeons by the income of



the George Blumenthal, Jr., Scholarship Fund. An annual award or awards shall be made to a student or students to cover the cost of tuition or for other purposes, in amounts not less than \$250 nor more than \$900 to any one student in any one academic year.

#### **Devendorf Scholarship**

The Devendorf Scholarship, established by a gift of \$65 from Mrs. Lodema W. Devendorf in memory of her husband, Davis M. Devendorf, of the Class of 1861 is open to a qualified candidate for the degree of M.D. In making the award preference shall be given to a student from the county of Herkimer in the State of New York and preferably to a student from the town of Herkimer.

#### **Prizes**

The following prizes are awarded for the best medical essay submitted under the conditions named in the statement of each prize, and, in addition, under the following general regulations:

Each essay must be marked with a device or motto, and accompanied by a sealed envelope similarly marked and containing the name and address of the author, and a written statement that the essay contains the result of original investigation made by him, that it is not the work of more than one author, and that it has not at the same time been submitted for any other prize. If in any case no essay is received that is deemed sufficiently meritorious, the prize will not be awarded.

#### **Alumni Association Prize**

The Alumni Association Prize of \$500 is awarded biennially (next award, 1914) to an alumnus of the College of Physicians and Surgeons for the best medical essay submitted upon any subject that the writer may select. Essays should be sent to the Secretary of the Alumni Association of the College of Physicians and Surgeons on or before April 1 of the year of award.

#### **Cartwright Prize of the Alumni Association**

The Cartwright Prize of \$500 was endowed by a bequest of \$10,000 left by Benjamin Cartwright, and is offered for competition in alternate years with the Alumni Association Prize.

It is awarded on the same terms as the latter, except that it is open to universal competition. For award, see page 482.

#### **Joseph Mather Smith Prize**

The fund for this prize was given by the relatives, friends, and pupils of the late Dr. Smith, as a memorial of his services as Professor in the College of Physicians and Surgeons from 1826 to 1866. Under the provisions of the trust an annual prize of \$100 is awarded for the best essay on the subject of the year, presented by an alumnus of the College. The competing essays should be sent to the Dean of the College of Physicians and Surgeons on or before March 10. For award, see page 482.

### Stevens Triennial Prize

The Stevens Triennial Prize, value \$200, established by the late Alexander Hodgdon Stevens, M.D., formerly President of the College of Physicians and Surgeons, is open for universal competition. (Next award 1915.)

The Dean of the Medical Faculty, the President of the Alumni Association of the College of Physicians and Surgeons, and the Professor of Physiology are, ex-officio, the administrators of the prize. Essays must be in the hands of the first-named on or before January 1 of the year of award.

### Scholarships

Thirteen scholarships of the annual value of \$250 and tenable for one year are open to candidates for the degree of Doctor of Medicine. The award of these scholarships is made only to students whose record for ability and scholarship gives evidence of special fitness and who need pecuniary aid to obtain an education.

*Harsen Scholarships:* The income of a fund established by the late Jacob Harsen, M.D., in 1859, for the purpose of "promoting the study of Medical and Surgical Practice," has, under an order of the Supreme Court, been made available for the award of five scholarships to students in the College of Physicians and Surgeons, in lieu of the Harsen prizes heretofore awarded. Of these scholarships, which are known as the "Harsen Scholarships," two may be awarded to students taking the second year in the medical course; two to students in their third year, and one to a student in his fourth year, provided that the aggregate of the stipends of such scholarships shall not exceed the income earned by the fund during the preceding year.

*Faculty Scholarships:* These are four in number and may be awarded to members of any class.

*Vanderbilt Scholarships:* In recognition of the liberal gifts of William H. Vanderbilt to the College of Physicians and Surgeons, four scholarships, to be known as the "William H. Vanderbilt Scholarships," have been established. These are open to students of any class.

### Scholarships and Prizes in the Schools of Mines, Engineering, and Chemistry

Thirty-five scholarships of the annual value of \$250 each are available annually for award to meritorious candidates for professional degrees in Mines, Engineering, and Chemistry, who are in good academic standing, and in need of pecuniary aid.

The awards will be made not later than July 1 by the Committee on Scholarships. Scholarships not allotted at this time, or becoming vacant, shall be filled by the Committee at its discretion.

Twenty-seven Benefactors Scholarships (see p. 458) are open to students in the Schools under the Faculty of Applied Science, as follows: Morgan (7), Vanderbilt (7), James (10), Jesup (1), Babcock (1), and Ottendorfer (1). These scholarships may be awarded to students who have been in the University for at least one year.

In addition to the above, eight Faculty scholarships may be awarded to members of any class.

#### **Marcus Daly Scholarship in Mining Engineering**

The Marcus Daly Scholarship of the annual value of \$1000, maintained by Mrs. James W. Gerard in memory of her father, is open to that worker or descendant of a worker in the Montana mines who passes the best competitive entrance examinations to the course in Mining Engineering. The winner of the scholarship shall hold the same throughout his course in mining engineering, subject to the same conditions of reappointment as those imposed upon the holders of competitive scholarships in Columbia College. As soon as the term of one holder of the scholarship is about to expire, another competitive examination is held. For awards, see page 479.

#### **Illig Medals**

A bequest of \$2000 left by William C. Illig, E.M., '82, provides for the annual award of medals at Commencement to the student or students in the graduating class of the Schools of Mines, Engineering, and Chemistry, who shall, in the judgment of the Faculty, have merited the same by commendable proficiency in their regular studies. For awards, see page 479.

#### **Darling Prize**

The Edward A. Darling Prize in Mechanical Engineering, the income of \$1000, bequeathed by Edward A. Darling, formerly Superintendent of Buildings and Grounds, shall be awarded annually to the most faithful and deserving student of the graduating class in Mechanical Engineering, the recipient of the prize to be chosen by ballot, by members of the graduating class in the course in Mechanical Engineering, from among three names to be chosen by the Faculty of Applied Science. For awards, see page 479.

### **Fellowships and Scholarships in the School of Architecture**

#### **Columbia Fellowship**

The Columbia Fellowship in Architecture, the net income accruing during a period of two years of \$13,000, established in recognition of the gifts of F. Augustus Schermerhorn, E.M. '68, to the School of Architecture, is open each alternate year to all school graduates. The winner is required to devote the income to foreign study and travel in accordance with approved plans. For awards, see page 479.

**McKim Fellowship**

The McKim Fellowship in Architecture, endowed by gift of Charles F. McKim of \$20,000, is open to graduates who have received their degrees within six years preceding its bestowal, and is awarded in May of each year as the result of a competition in design. The holder is required to spend a year in foreign travel and study. Any incumbent who has displayed marked proficiency and promise is eligible to reappointment for one year, but no more. The value of this Fellowship is \$820. For awards, see page 480.

**Perkins Fellowship**

A traveling Fellowship, the net income from a fund of \$5,700, from the bequest of the late Wilard P. Perkins, is awarded every fourth year, the last award being in 1910. The conditions of award and the purposes of the Fellowship are the same as for the McKim Fellowship. For awards, see page 480.

**Scholarships**

Four scholarships of the value of \$200 are awarded in the School of Fine Arts, under the same general conditions as those in the Schools of Mines, Engineering, and Chemistry (see page 479). For awards, see page 479.

**Medal of the Society of Columbia University Architects**

The Society of Columbia University Architects offers an annual medal for proficiency in advanced design. For award, see page 480.

**Fellowships, Scholarships and Prizes in Barnard College****Graduate Fellowship**

A graduate Fellowship to be awarded each year as an academic honor to that member of the graduating class of Barnard College, who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work, has been established by an anonymous donor. The Fellowship carries an annual value of \$600. The holder is to pursue a year of graduate study at Columbia or any other university or college of approved standing. This Fellowship will be awarded each year as soon as possible after the mid-year examinations. Students who have graduated in February will be eligible, as well as those who are graduating in June.

**Scholarships**

There are altogether forty-one scholarships and three special funds for the aid of needy and deserving students.

For a detailed statement of the values of the various scholarships, the conditions under which they are awarded, the regulations regarding



applications, and the like, see the *Barnard College Announcement*, to be obtained upon application to the Secretary of Barnard College.

### Competitive Scholarships

(Awarded for excellence in entrance examinations)

*A. Open to all Students:* Trustees' Competitive Scholarship; Jessie Kaufmann Scholarship.

*B. Open to Particular Students:* Brooklyn Scholarships (12); Lucille Pulitzer Scholarships, Series of 1908-12 (3).

### Non-competitive Scholarships

(Awarded on the nomination of the Committee on Scholarships of the Faculty to worthy students who have passed at least one year in College)

*A. Open to all Students:* 12 Student Scholarships, the Ella Weed Scholarship, the Veltin School Scholarship, the Jennie B. Clarkson Scholarship, the Emily James Smith Scholarship, the Anna E. Baynard Scholarship, the Brearley School Scholarship, the Eliza Taylor Chisholm Memorial Scholarship, the Graham School Scholarship, the Keller School Scholarship, the Tillitson Scholarship, the Kinnicutt Scholarship.

*B. Open to Particular Students:* The Mrs. Donald McLean Scholarship, the Emma Hertzog Scholarship, the Mrs. Henry Clarke Coe Scholarship.

### Honors

For awards, see page 481

### Loan Funds

There are three funds, the Arthur Brooks Fund, the Fiske Scholarship Fund and the George W. Smith Scholarship Fund, available for needy and deserving students.

### Prizes

For detailed statements about the conditions governing the award of prizes see the *Barnard College Announcement*, to be obtained of the Secretary of Barnard College.

## TEACHERS COLLEGE

Teachers College awards annually a number of fellowships, forty or more scholarships and a number of grants for foreign research, all except where special announcement is made to the contrary, open to men and women alike.

### Fellowships and Research Scholarships

A special Fellowship Fund, of not less than four thousand dollars, is assigned annually at the discretion of the Faculty to Fellows and Research Scholars; the normal assignment to a fellowship being five hundred, that to a research scholarship two hundred and fifty dollars.



### Graduate Scholarships

Eight or more graduate scholarships, each of the annual value of one hundred and fifty dollars, for the term of one year, are awarded on the same general conditions as the fellowships. They may be renewed for a second term of one year in case the holder gives evidence of superior ability.

### Foreign Research Fund

Teachers College established in 1910 a Foreign Research Fund to aid competent students in investigating special phases of Education in foreign countries. In general this fund of one thousand dollars annually will be divided among several students so as to pay the extra cost of traveling and residence abroad. Recipients of grants will work under the direction of the professor in charge of the course in Comparative Education. On their return they will be required to submit the result of their investigations in a form suitable for publication.

### Undergraduate and Special Scholarships

The following undergraduate and special scholarships are awarded annually. Applications should be made in the same manner as for graduate scholarships, on blank forms provided by the Secretary of the College, to be returned for consideration prior to April 1 preceding the academic year for which the appointment is sought.

#### *School of Education*

The Tileston Scholarship of the annual value of seventy-five dollars, founded by Mrs. Peter M. Bryson.

The Shackleford Scholarship of the annual value of seventy-five dollars, founded by the Misses Shackleford.

The Pierrepont Scholarship of the annual value of seventy-five dollars, founded through Miss Annie L. Pierrepont.

The Pond Scholarship of the annual value of seventy-five dollars, founded and endowed by Mrs. Frank Porter.

The Charlotte Louisa Williams Scholarship (open only to women), of the annual value of one hundred and fifty dollars, founded and endowed by Mrs. Peter M. Bryson and Miss Grace H. Dodge.

The Earl Scholarship (open only to men), of the annual value of one hundred and fifty dollars.

The Hoadley Scholarship of the annual value of one hundred and fifty dollars.

Scholarships from a fund of the annual value of seven hundred and fifty dollars, given by Mrs. Helen Hartley Jenkins.

The Runyan Scholarship, established from the income of a fund given in memory of Mary Duncan Runyan, professor of kindergarten from 1897-1905.

The Livingston Scholarships, from a fund of the annual value of one thousand dollars.

The Delta Sigma Alumnae Scholarship of the annual value of seventy-five dollars, given by the Delta Sigma Alumnae Association.

*School of Practical Arts*

The Caroline Scholarship, in Domestic Science, of the annual value of two hundred and fifty dollars, founded and endowed by Miss Caroline Phelps Stokes.

The Isla Stewart Scholarship, established by the alumnae of the Nurses School of Saint Bartholomew's Hospital, London, awarded annually to one of their number.

Household Arts and Industrial Scholarships, from a fund of the annual value of one thousand dollars.

The Isabel Hampton Robb Scholarship of the annual value of two hundred and fifty dollars, given by Mrs. Helen Hartley Jenkins.

*School of Education or School of Practical Arts*

A scholarship established by the trustees of Salem Academy and College, Winston-Salem, N. C., awarded annually to a member of the staff of that institution.

The Army and Navy Scholarship, founded by the Society of the Daughters of the Cincinnati, awarded annually to the daughter of an officer of the regular army or navy of the United States.

**Prizes**

**Prize of the Colonial Dames**

A prize of fifty dollars in gold and a silver medal is awarded annually by the Society of Colonial Dames to that student of Teachers College who presents the best essay on a topic connected with the colonial history of America. Papers must be presented to the head of the department of History on or before April 20. The topics are publicly announced several months in advance.

**Prize of the United Daughters of the Confederacy**

A prize of one hundred dollars is awarded annually by the United Daughters of the Confederacy to that student of Teachers College who presents the best essay on a topic connected with the activity of the South before or during the war between the States. Papers must be presented to the head of the department of History on or before April 20. The topics are announced several months in advance.

## FELLOWS AND SCHOLARS

### *University Fellows 1912-13*

ALBERT G. A. BALZ.....	<i>Philosophy</i>
PERCY ADDISON CHAPMAN.....	<i>Romance Languages</i>
FREDERICK ARCHIBALD DEWEY.....	<i>Sociology</i>
THOMAS DAWES ELIOT.....	<i>Social Economy</i>
ROBERT STANLEY FORSYTHE.....	<i>English</i>
LUCIUS ARNOLD FRYE.....	<i>Constitutional Law</i>
JOSEPH SAMUEL HEPBURN.....	<i>Geological Chemistry</i>
JOHN ROESER KNIPPING.....	<i>Mediaeval History</i>
LLOYD LEROY SMAIL.....	<i>Mathematics</i>
ALFRED HENRY STURTEVANT.....	<i>Zoölogy</i>
FRANCIS MAURICE VAN TUYL.....	<i>Geology</i>
GEORGE FRISBIE WHICHER.....	<i>English</i>

### *Tyndall Fellows*

1891-92 WILLIAM H. FREEDMAN	1904-07 FREDERIC COLUMBUS
1892-93 CHARLES R. MANN	BLAKE
1894-95 CHARLES R. MANN	1907-08 GEORGE B. PEGRAM
1895-97 WALTER WHEELER COOK	1908-09 HAROLD WORTHINGTON
1897-98 No incumbent	WEBB
1898-1901 ROBERT BOWIE OWENS	1909-11 HENRY HOWARD MARVIN
1901-03 BERGEN DAVIS	1911-12 ANDREW WARREN JACKSON
1903-04 FRANK LEO TUFTS	1912-13 WILLIAM STOCKTON NELMS

### *Special Tyndall Fellow*

BENJAMIN LIEBOWITZ

### *Barnard Fellows*

1894-96 WILLIAM LISPENARD ROBB	1905-07 CLARENCE WHITNEY KANOLT
1896-97 No incumbent	1907-08 HAROLD WORTHINGTON
1897-1900 HEINRICH RIES	WEBB
1900-03 JOHN ALEXANDER MATHEWS	1908-11 CLEMENT S. BRAININ
1903-05 WILLIAM CAMPBELL	1911-12 GEORGE ADDISON BOLE
	1912-13 EDWARD SCHRAMM

### *Ernest Kempton Adams Research Fellows*

1905-07 ERNEST FOX NICHOLS	1909-11 CLARK WELLS CHAMBER-
1907-09 BERGEN DAVIS	LAIN
	1911-13 ROBERT W. WOOD

*Fellow of the International School of American Archaeology and Ethnology*

PAUL RADIN

*Special Fellow*

SIDNEY BORN 1912-13

*Class of '70 Fellow*

1896 LEWIS BUFFET CARLL

*George William Curtis Fellows*

1901-02 JAMES WILFORD GARNER	1907-08 EDWARD MCCHESENEY SAIT
1902-04 CHARLES AUSTIN BEARD	1908-09 BLAINE FREE MOORE
1904-06 CHARLES GROVE HAINES	1910-11 SYDNEY D. MOORE HUDSON
1906-07 No incumbent	1911-12 SAMUEL MACK EASTMAN

*Drisler Fellows*

1894-96 JOHN KASSON LATHROP	1902-03 HARWOOD HOADLEY
1896-97 GEORGE N. OLCOTT	1903-04 WALTER WHIPPLE ARNOLD
1897-98 WILLIAM T. F. TAMBLYN	1904-05 No incumbent
1898-99 CORLISS FITZ RANDOLPH	1905-06 MACON ANDERSON LEIPER
1899-1900 EDWARD CHARLES HARWOOD	1906-08 CHARLES JONES OGDEN
1900-01 BERT HODGE HILL	1908-10 HUBERT MCNEILL POTEAT
1901-02 No incumbent	1910-11 IRVING COMES DEMAREST
	1911-13 RHYS CARPENTER

*McKim Fellow*

WILLIAM CARSON FRANCIS

*Garth Fellows*

1905-06 MEYER JACOBSTEIN	1910-11 BENJAMIN MCALESTER ANDERSON
1906-07 JAMES HENRY GILBERT	
1907-08 LOUIS DWIGHT HARWELL WELD	FRANK HATCH STREIGHT-OFF
1908-09 SOLOMON VINEBERG	1911-12 ROBERT MURRAY HAIG
1909-10 EDWARD HENRY LEWINSKI	1912-13 PRABHAKER S. SHILOTRI

*Gottsberger Fellows*

1905-06 GEORGE CHRISTAIN OTTO HAAS	1909-10 RALPH WATSON DOX
1907-08 MEYER JACOBSTEIN	1910-11 WILLIAM STUART MESSER
	1911-12 FREMONT AMASA HIGGINS

*Mosenthal Fellows*

1899-1901 MARY ANGELA DILLER	1906-07 WILLIAM JACOB KRAFT
1902-04 FRANK EDWIN WARD	1908-09 FRANZ BELLINGER
1904-05 BENJAMIN LAMBORD	1910-11 EDWARD BETTS MANNING
	1912-13 EDWARD KILENYI

*Proudfit Fellows in Letters*

1900-03 JOHN ERSKINE	1907-10 ERNEST HUNTER WRIGHT
1903-05 STANLEY KIDDER WILSON	1910-11 GEDDES SMITH
1905-06 No incumbent	1911-12 NELSON BURROUGHS GIL-
1906-07 CHARLES FRANCES LAW-	DERSLEEVE
SON	1912-13 ELBRIDGE COLBY

*Schiff Fellows*

1898-1900 WILLIAM HENRY FRY	1906-07 SAMUEL G. NISSENSON
1900-01 WALTER PERCY BORDWELL	1907-08 CARL F. L. HUTH
1901-02 ULRICH BONNELL PHILLIPS	1908-09 LEONARD SCOTT BLAKEY
1902-03 GEORGE CHARLES SELDEN	1909-10 CHARLES ELMER GEHLKE
1903-04 PRESERVED SMITH	1910-11 BENJAMIN BURKS KEN-
1904-05 NORRIS ARTHUR BRISCO	DRICK
1905-06 CHARLES RAMSDALL LING-	1911-12 HENRY ELMER HOAGLAND
LEY	
1912-13 RAYMOND ROBERT AMMARELL	

*Carl Schurz Fellows*

1902-03 JOHN LOUIS KIND	1908-09 PERCY GAINES CRAIG
1904-05 ALLEN WILSON PORTER-	1909-10 HENRY JOHN SKIPF
FIELD	1910-11 WILL CARSON RYAN, JR.
1906-07 HENRY HERMANN LOUIS	1912-13 DAVID PERCY GILMORE
SCHULZE	

*William Mitchell Fellows*

1908-10 IRVING COMES DEMAREST	1911-12 LESTER SAUNDERS HILL
1910-11 MAURICE PICARD	1912-13 RANDOLPH SILLIMAN
	BOURNE

*Goldschmidt Fellows*

1909-10 EDWARD CALVIN KENDALL	1911-12 HAROLD EDWARD WOOD-
1910-11 ALMER McDUFFIE McAFEE	WARD
	1912-13 JOHN SEAMAN BATES

*Gilder Fellows*

1911-12 WILLIAM SHEPHERDSON	1912-13 ARNOLD JOHNSON LIEN
	LYMAN B. VEEDER

*Industrial Research Fellow in Chemistry*

1912-13 CARL HANER
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*University Scholars, 1912-13*

MORSE SHEPARD ALLEN.....	English
CALVIN B. BRIDGES.....	Zoölogy
DONALD LEMEN CLARK.....	English
EDWIN LEAVITT CLARKE.....	Sociology
JOHN SMITH DEXTER.....	Zoölogy
MAURICE PRATT DUNLAP.....	History
BARTEL EDWARD EBEL.....	Latin
CHARLES ELSON.....	Germanic Languages
GABRIEL MARCUS GREEN.....	Mathematics
JOSEPH JENSEN.....	Mining
JULIAN SUMNER LAWRENCE.....	International Law
ALEXANDER LOWY.....	Organic Chemistry
CHARLES CRAIG MOOK.....	Geology
JOSEPH H. PARK.....	History
GERARD ALSTON REICHLING.....	Germanic Languages
EDWIN CLYDE ROBBINS.....	Economics
WARREN ANDREW SHERMAN.....	American History
ALLEN PAUL SPRINGER.....	Philosophy
WARREN S. THOMPSON.....	Sociology

*President's University Scholars, 1912-13*

CHARLES ANTONINUS CARROLL.....	English
ISADORE EISENBERG.....	Economics
FRANK ROSE ELDER.....	Chemistry
HARRISON MARTEN DICKINSON FRERICHS.....	American History
DOUGLAS G. CAMPBELL.....	Chemistry

*Curtis University Scholars, 1912-13*

MABEL BARRETT.....	Psychology
KATE ETHEL CHAMBERS.....	Semitic Languages
MARJORIE O'CONNELL.....	Geology
EDITH ROCKWOOD.....	Sociology

*Richard Butler Scholars*

1904-07 OTHO LEE MONROE	1909-10 HOWARD DWIGHT SMITH
1907-09 JOHN SHERMAN ROBINSON	1910-11 GEORGE DENTON BEAL
1911-13 GEORGE GIVEN HOLLINGSHEAD	

*John D. Jones Scholars*

1898-99 FRANCIS BERTODY SUMNER	1901-02 WILLIAM E. KEL LICOTT
1899-1900 JOHN CUTLER TORREY	1902-03 CHARLES ZEL ENY
1900-01 FREDERICK CLARK PUAL-	1903-04 LOUIS I. DUBLIN
MIER	1904-05 CHARLES RUPERT STOCKARD

1905-06	JOHN HOWARD MCGREGOR	1909-11	AARON FRANKLIN SHULL,
1906-07	DAVID DAY WHITNEY		JR.
1907-08	CHARLES V. MORRILL	1911-12	ALFRED HENRY STURTE-
1908-09	DAVID DAY WHITNEY		VANT
		1912-13	JAMES P. KELLY

*Honorary Scholar*

OTIS HERBERT DRAPER.....	<i>History</i>
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*Special Scholars*

CHARLES WILLIAM METZ.....	<i>Zoölogy</i>
GEORGE WILLIAM EDWARDS.....	<i>History</i>

*Devendorff Scholar (in Medicine)*

S. T. FORTUNE

## Special Alumni Association Scholarships

*Columbia College*

JOHN H. COVER.....	Pittsburgh
HOWARD W. PALMER.....	Albany
KENNETH SMITH.....	California
WALTER B. VEAZIE.....	Utah
JOHN WM. MONSER.....	Illinois

*Schools of Mines, Engineering and Chemistry*

ISAAC FREEDMAN.....	District of Columbia
NORMAN KEMPF.....	New Jersey
A. P. MEYER.....	St. Louis
MORRIS TERNOFF.....	Western, N. Y.
OSCAR B. LAUSCHER.....	Wisconsin
ALVAH ERNEST ESSER.....	Yonkers
CARLOS CONTRERAS.....	Mexico

*Law School*

H. H. HEALY.....	Colorado
F. D. SCHNACKE.....	Kansas City

*Architecture*

MANUEL GAMBA.....	Cuba
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*Journalism*

LAURENCE H. SLOAN.....	Indiana
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*Political Science*

M. WOLFF.....	Philadelphia
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*Pure Science*

WARREN S. SMITH.....	Washington
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**Barnard Medal**

*Awards*

1895 LORD RAYLEIGH and Professor WILLIAM RAMSAY

1900 Professor WILHELM CONRAD VON RÖNTGEN

1905 Professor HENRI BECQUEREL

1910 Professor ERNEST RUTHERFORD

**Bunner Medal**

*Award of 1912*

FANNIE MOULTON McLANE, A.M.

**Bennett Prize**

*Award of 1912*

WILLIAM ROSENBLATT

**Loubat Prizes**

*Award of 1893:* First Prize, "History of the United States of America during the Administration of Jefferson and Madison," by HENRY ADAMS

Second Prize, "Report of Investigation among the Indians of the Southwestern States," by A. F. BANDELLER

*Award of 1898:* First Prize, "Stone Implements of the Potomac-Chesapeake Tidewater Province," by WILLIAM HENRY HOLMES

Second Prize, "The Social Organization and the Secret Societies of the Kwakiutl Indians," by FRANZ BOAZ, PH.D.

*Award of 1908:* First Prize, "The American Colonies in the Seventeenth Century," by HERBERT LEVI OSGOOD, PH.D., LL.D.

Second Prize, "The History of the Society of Jesus in North America," by Rev. THOMAS ALOYSIUS HUGHES, S. J.

**Toppan Prize**

*Award of 1912*

PAUL JARED BICKEL, A.B.

JEROME MICHAEL, A.B.

**Earle Prize in Classics**

*Award of 1912*

EDITH MOORE VALET

**New Jersey Alumni Association**

*Awards of 1911*

*Columbia College*

DAVID LYON JACOBSON

*Mining, Engineering and Chemistry*

CARL WALDERMAR VAIL

## Columbia College

## Alumni Competitive Scholarships

*For 1912-13*

Class of 1913—G. D. VON HOKE

Class of 1914—F. W. JEWETT

Class of 1915—D. C. CRAMPTON

Class of 1916—H. C. CHADWICK

## Hewitt and Harper Scholarships

*For 1912-13*

Class of 1913—S. DANZIG

Class of 1915—E. KLEIN—M. M. LORENTZ

Class of 1914—A. C. ROTHWELL

Class of 1916—WENDELL FOGG

## Brooklyn Scholarships

*For 1912-13*

Class of 1913—N. SHANKS, M. G. GOTTESMAN, C. PENLOWITZ

Class of 1914—B. GROSSBAUM, L. MORIARTY, J. W. HERRING

Class of 1915—D. ROTHENBERG, L. MARCUS, J. J. TANZOLA

## Louis K. McClymonds Scholarships

*For 1912-13*

Class of 1913—P. L. MOON

## Prize of the Alumni Association

*Names submitted in 1912*

ARTHUR BEARNS BRENNER (Selected) ORRIN CASTLE ISBELL

JAMES TAYLOR KEMP

ARTHUR WHITTIER MACMAHON

CLARENCE AUGUSTUS MANNING

## Chanler Historical Prize

*Award of 1912*

JOSEPH WARD SWAIN

## Curtis Medals

*Award of 1912*

Gold Medal—HAROLD AUGUSTIN CALAHAN

Silver Medal—HARRY JOSEPH FARRELL

John Dash Van Buren, Jr., Prize in Mathematics

*Award in 1912*

SIEGFRIED H. HARTIG

Charles M. Rolker, Jr., Prize

*Award in 1912*

FREDERICK CULMAN

Albert Marion Elsberg Prize

*Award in 1912*

PRESTON WILLIAM SLOSSON

Caroline Phelps Stokes Prize

*Award in 1912*

RANDOLPH SILLIMAN BOURNE

Professor Van Amringe Mathematical Prize

*Award in 1912*

J. MALCOLM BIRD

General Honors

*Highest Final General Honors*

RANDOLPH SILLIMAN BOURNE

CLARENCE AUGUSTUS MANNING

ARTHUR BEARNS BRENNER

CHARLES HARRISON MEYER

SIEGFRIED H. HARTIG

HENRY HAROLD NORDLINGER

JAMES HENRY HENLE

General Honors

DUDLEY JEROME BACHRACH

JOSEPH HENDERSHOT PARK

WILLIAM LEWIS BANTON

WILLIAM ERNEST SHREWSBURY

CALVIN BLACKMAN BRIDGES

PRESTON WILLIAM SLOSSON

SAMUEL LIPSTADT JACKSON

ALLAN PAUL SPRINGER

FRANK JOSEPH McMACKIN

THOMAS HENDERSON WATSON, JR.

MAX DAVID MAYER

MILES LOWELL YATES

## School of Law

### Awards of Beck Prize Scholarships

1900-1901 CHARLES R. GANTER

1908-1909 EDWARD H. HART

1901-1902 HENRY STARR GIDDINGS

1909-1910 WILDER GOODWIN

1902-1903 H. H. BABCOCK

1910-1911 JEROME MICHAEL— $\frac{1}{2}$

E. P. GROSVENOR

P. S. ANDREWS— $\frac{1}{2}$

1903-1904 E. L. BEATTY

1911-1912 F. P. FERGUSON— $\frac{1}{2}$

1904-1905 JOHN M. GRIFFITH

GARDNER P. LLOYD— $\frac{1}{2}$

1905-1906 CHARLES B. SHELTON

1912-1913 SAMUEL G. LEVINSON

1906-1907 ROBERT LEROY

TRACY S. VOORHEES

1907-1908 CHARLES M. TRAVIS

RICHARD R. B. POWELL

Convers Prize

*Award of 1912*

CARLO SUTRO MORBIO



## Ordronaux Prize

*Awards of 1912*

NORMAN M. BEHR  
FRANCIS H. MCADOO

CLINTON J. RUCH  
GARDNER P. LLOYD

## School of Medicine

## Proudfit Fellows in Medicine

1904-08 LINSLEY RUDD WILLIAMS  
1908 No award

1909 EDWARDS A. PARK  
1912 RUSSEL L. CECIL

## Alonzo Clark Scholarship

*No Award*

## Cartwright Prize of the Alumni Association

*No Award in 1912*

## Joseph Mather Smith Prize

*No Award in 1912*

## School of Mines, Engineering, and Chemistry

## Marcus Daly Scholarship in Mining Engineering

1904-08 HENRY FARMER DAVIS

1908-11 CORNELIUS G. SULLIVAN

1911 FREDERICK S. WRIGHT

## Illig Medals

*Award of 1912*

GEORGE LINDSLEY BURR, A. B.

CARL F. HÜTTLINGER, A.B.

STUART LEVISON

## Darling Prize

*Award of 1912*

EDGAR HEMINGWAY MOSHER

BRUNO ROGOWSKI

FERDINAND CARL SCHEDE (Selected)

## School of Architecture

## Columbia Fellows in Architecture

1890-91 ARTHUR A. STOUGHTON

1904-05 HUBERT VAN WAGENEN, JR.

1892-93 HORACE B. MANN

1905-06 THOMAS WILLIAM LUDLOW

1894-95 SETH JUSTIN TEMPLE

1906-07 EMILIO LEVY

1896-97 WILLIAM KINNE FELLOWS

1907-08 No award

1898-99 WILLIAM CLARK AYRES

1908-09 EDWARD JOHN STORK

1900-01 THEODORE BLONDEL, JR.

1909-10 WILLIAM LAWRENCE BOT-

1902-03 ARTHUR WARE

TOMLEY

1910-11 GERARD PITT	1911-12 WILBUR N. ALBERSTON
1911-12 WILBUR NICHOLAS ALBERT-SON.	1912-13 No award

*McKim Fellows in Architecture*

1891-92 A. C. M. DEL MONTE	1901-02 CHARLES LUDWIG OTTO
ALEXANDER M. WELCH	EDWARD NECARSULMER
1893-95 GEORGE OAKLEY TOTTEN, JR.	1903-04 FRANCIS AUGUSTUS NELSON
WILLIAM LINCOLN THORNE	GEORGE WASHINGTON JACOBY
1895-97 JOHN RUSSELL POPE	1904-05 No incumbent
1897-98 HARRY ALLAN JACOBS	1905-07 LUCIEN EASTER SMITH
1898-99 JOHN RUSSELL POPE	1907-09 WILLIAM LAWRENCE BOT- TOMLEY
HARRY ALLAN JACOBS	
1899-1901 LIVINGSTON PELL	1909-11 CHARLES THEODORE EMILE DIETERLEN
WILLIAM EDWARD PAR- SONS	1911-13 WILLIAM C. FRANCIS

*Perkins Fellows*

1902-03 CHARLES SUMNER KAISER	1906-07 ARTHUR LOBO
1910-11 H. D. SMITH	

## Medal of the Society of Columbia University Architects

*Award of 1912*

OSBORNE GILES FOARD

**Barnard College***Jessie Kaufmann Scholarship* RUTH ESTELLE GUERNSEY*Brooklyn Scholarships*

ALICE MORTIMER BAILEY	GERTRUDE RAFF
CONSTANCE ISABEL BARNET	MARGARET CECELIA RICHEY
EDITH HALFPENNY	LILLIAN SOSKIN
MARY ELIZABETH KENNY	MABEL WEIL
EDNA LONGAN	KATHARINE WILLIAMS
SALLIE EUGENA PERO	

*Lucille Pulitzer Residence Scholarships*

ELEANOR HEERMANCE HUBBARD	LOUISE TALBOT
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*Lucille Pulitzer Non-Residence Scholarships*

DOROTHY MARGUERITE BLONDEL	SOPHIE IDA BULOW
SIDNEY LOUISE MINER	

<i>Martha T. Fiske Scholarship</i>	LUCY REED POWELL
<i>Eleanora Kinnicutt Scholarship</i>	MARGARET MONROE
<i>Emma A. Tillotson Scholarship</i>	RUTH OSTERBERG
<i>William Moir Scholarships</i>	LOUISE ELIZABETH ADAMS HARRIET WINSHIP POORE
<i>Graduate Fellowship</i>	DOROTHY ALICE SPEAR
<i>Herrman Botanical Prize</i>	HESTER MARY RUSK MARY WITHERSPOON STEWART
<i>Kohn Mathematical Prize</i>	LILLIAN ALMA MACDONALD
<i>Jenny A. Gerard Gold Medal</i>	PHEBE EDITH HOFFMAN

### Honors

#### Departmental

<i>Chemistry</i>	DOROTHY FRASER HEROD, <i>First Year</i> LILLIAN ALMA MACDONALD, <i>Final</i> JOSEPHINE CECILE MELSHA, <i>Third Year</i>
<i>Classical Philology</i>	MOLLY BROOKE TEMPLE COYLE, <i>Final</i> RUTH ESTELLE GUERNSEY, <i>Second Year</i> MILDRED LIVINGSTON HODGES, <i>Final</i> GERTRUDE ELIZABETH MORRIS, <i>Third Year</i> EDITH MOORE VALET, <i>Final</i>
<i>English</i>	ELSA SAUTER MEHLER, <i>Final</i> VIRGINIA SMITH, <i>Final</i> LILLIAN SOSKIN, <i>First Year</i>
<i>French</i>	CLARA MAYER, <i>First Year</i> MARGARET CECILIA RICHEY, <i>Third Year</i> EMMELINA DE THIERRY WALKER, <i>First Year</i>
<i>Geology</i>	CAROLINE ALLISON, <i>Second Year</i>
<i>German</i>	GERTRUDE SERAPHINE BORCHARDT, <i>Final</i> SOPHIE IDA BULOW, <i>First Year</i> LUCY GRACE COGAN, <i>First Year</i> BEATRICE DANZIG HEINEMANN, <i>Second Year</i>
<i>History</i>	ISABELLA PRESTON DOUGLAS, <i>Third Year</i> PHEBE EDITH HOFFMAN, <i>Final</i> CLARE HILDEGARDE REESE, <i>Final</i> ANNA BEATRICE SALZMAN, <i>Third Year</i>

<i>Italian</i>	LOUISE NYITRAY, <i>Final</i>
<i>Mathematics</i>	GEORGIA ANGELA CEROW, <i>Final</i>
	ESTELLE DE YOUNG, <i>First Year</i>
	ETTA VIOLET FRIEND, <i>Second Year</i>
	CATHARINE CARRIE FRIES, <i>First Year</i>
	ETHEL MAY HAWKEY, <i>Third Year</i>
	ESTHER LEWONTIN, <i>Final</i>
	BESSIE NELSON MACDONALD, <i>Third Year</i>
	LILLIAN ALMA MACDONALD, <i>Final</i>
	JOSEPHINE CECILE MELSHA, <i>Third Year</i>
	MARJORIE O'CONNELL, <i>Final</i>
	SALLIE PERO, <i>Third Year</i>
	GERTRUDE RAFF, <i>Second Year</i>
	EDITH EVA STIRN, <i>First Year</i>
<i>Philosophy</i>	AMY WEAVER, <i>Final</i>
<i>Physics</i>	GERTRUDE RAFF, <i>Second Year</i>
<i>Psychology</i>	ESTELLE DE YOUNG, <i>First Year</i>
	ANNA COBB HALLOCK, <i>Final</i>
<i>Zoölogy</i>	FLORENCE DE LOISELLE LOWTHER, <i>Final</i>

## Highest Final General Honors

GERTRUDE SERAPHINE BORCHARDT	CLARE HILDEGARDE REESE
MILDRED VALENTINE HAMBURGER	ETTA MAY SCHWEIS
ELSA SAUTER MEHLER	BEATRICE CLARA STEGMAN
	LOUISE NYITRAY

## General Honors

LOUISE ELIZABETH ADAMS	JOSEPHINE CECILE MELSHA
EDNA FRANCES ASTRUCK	SIDNEY LOUISE MINER
MABEL BARRETT	AMELIA ROBINSON MUMFORD
HELLA FELICITAS BERNAYS	PAULA FRIEDA OELLRICH
IDA MAY BLOUNT	LUCY REED POWELL
SARAH SCHUYLER BUTLER	GERTRUDE RAFF
MOLLY BROOK TEMPLE COYLE	ETHEL SCARLETT RICHARDSON
ESTELLE DE YOUNG	HESTER MARY RUSK
HELEN RUPERT DOWNES	ANNA BEATRICE SALZMAN
RUTH GRAAE	HARRIET SEIBERT
RUTH ESTELLE GUERNSEY	CORA SENNER
EDITH HALFPENNY	MARGARET SOUTHERTON
ETHEL MAY HAWKEY	DOROTHY ALICE SPEAR
BEATRICE DANZIG HEINEMANN	EDITH MOORE VALET
PHEBE EDITH HOFFMAN	MARY VOYSE
BESSIE NELSON MACDONALD	MARGARET WICKHAM WATSON
LILLIAN ALMA MACDONALD	

## Teachers College

## Fellowships and Scholarships

*Fellows for 1912-13*

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EDGAR WALLACE KNIGHT

*Frances E. Field Fellow*

LAVINIA TALLMAN

*Research Scholars*

HERBERT A. BROWN      WILLIAM ARTHUR MADDOX  
HERMAN GIRVIN CUTHBERT      ROBERT FRANCIS SEYBOLDT  
ERNEST HORN      EDSON HOMER TAYLOR

*Graduate Scholars*

STELLA STEWART CENTER      WALTER KRUMBECK  
KREMER HOKE, JR.      MARY SALMOND LILLEY  
HILARY HERBERT HOLMES      HOWARD VINCENT PICKERING  
TRUMAN LEE KELLEY      GUY MITCHELL WILSON

*Undergraduate Scholars*

*Tileston Scholar*      HELEN MEYER  
*Shackleford Scholar*      MARY BLANCHE SHIMER  
*Pierrepont Scholar*      KATHRYN MARGARET GALVIN  
*Pond Scholar*      JOSEPH B. ORLIANSKY  
*Charlotte Louisa Williams Scholar*      HELEN GOSS  
*Earl Scholar*      JOHN MONTGOMERY GAMBRILL  
*Hoadley Scholar*      HELEN THOMAS STRONG

*Army and Navy Scholar*

LEROY LANGDON BUCK

*Jenkins Scholars*

OLIVE SUSANNA DE LUCE      MILDRED M. MILLER  
EDNA MAY FLARIDA      CAROLYN ISABELLE RODGERS  
FRANCIS CATHERINE HICKOX      GRACE HARRIET UTLEY  
OLEY ANDER JOHNSON      BERTHA WINN

*Runyan Scholar*

MARY LOUISE SEEGER

*Livingston Scholars*

ALICE SEYMOUR BROWN      PING WEN KUO  
LUCY JOSEPHINE GRAVES      LEON JOHN K. LEVONIAN  
EDWIN CHESTER HAWLEY      JOSHUA ZAU TSUNG NYI  
ZAUNG TEH ING      KAI MING WONG



*Scholars in Practical Arts**Caroline Scholar*

ELIZABETH ROTHERMEL

*Undergraduate Scholars*

JENNIE REES BEAR

BESSIE CHAMBERS LEFTWHICH

JEANE GRIFFITH

LOUISE BEACH MOSS

GRACE GORDON HOOD

ANNA EVALYN NORTON

FRANCES BEATRICE HUNTER

JESSIE ISABEL VANSTRUM

LENA MILLICENT YACKEY

*Porto Rican Scholars*

ANGELES DAUBON

LUCILA MERCADO

CARLOTA MATIENZO

ERNESTINA SALIVA

*Mississippi Scholar*

MARTHA OLIVER ECKFORD

*Prizes*

Colonial Dames. \$50 in gold and a silver medal

*Award in 1912-13*

IRENE R. FITZGERALD

United Daughters of the Confederacy. \$100.

*Award in 1912-13*

FRANCES CALDWELL HIGGINS

**College of Pharmacy***Prizes***Max J. Breitenbach Prize**

A cash prize of \$200 is presented annually by Mr. Max J. Breitenbach for the highest proficiency in the Senior University Course.

*Award in 1912**Kappa Psi Gold Medal*

ROBERT CLINTON SCHLEUSSNER

*Faculty Graduate Prize*

ROBERT CLINTON SCHLEUSSNER

## EXCHANGE PROFESSORS

### Theodore Roosevelt Professorship

- 1906-07 JOHN WILLIAM BURGESS, Ph.D., LL.D., Jur.D. *Ruggles Professor of Political Science and Constitutional Law, and Dean of the Faculty of Political Science in Columbia University.*
- 1907-08 ARTHUR TWINING HADLEY, Ph.D., LL.D., *President of Yale University.*
- 1908-09 FELIX ADLER, Ph.D., *Professor of Social and Political Ethics in Columbia University.*
- 1909-10 BENJAMIN IDE WHEELER, Ph.D., LL.D., *President of the University of California.*
- 1910-11 CHARLES ALPHONSO SMITH, Ph.D., *Edgar Allan Poe Professor of English in the University of Virginia.*
- 1911-12 PAUL S. REINSCH, Ph.D., *Professor of Political Science in the University of Wisconsin.*
- 1912-13 WILLIAM M. SLOANE, L.H.D., LL.D., *Seth Low Professor of History in Columbia University.*

### Kaiser Wilhelm Professorship

- 1906-07 HERMANN SCHUMACHER, Jur.D., *Professor of Political Economy in the University of Bonn.*
- 1907-08 K. G. RUDOLF LEONHARD, J.U.D., *Professor of Legal Science in the University of Breslau.*
- 1908-09 ALBRECHT F. K. PENCK, Ph.D., Sc.D., *Professor of Geography in the University of Berlin.*
- 1909-10 CARL RUNGE, Ph.D., *Professor of Applied Mathematics in the University of Göttingen.*
- 1910-11 ERNST DAENELL, Ph.D., *Professor of Modern History in the University of Kiel.*
- 1911-12 JOSEF SCHICK, Ph.D., *Professor of English Philology in the University of Munich.*
- 1912-13 FELIX KRUEGER, Ph.D., *Professor of Experimental Psychology in the University of Halle.*

### Visiting French Professor

- 1911-12 GUSTAVE LANSON, Litt.D., *Professor of the History of Literature in the University of Paris.*
- 1912-13 HENRI BERGSON, Litt.D., *Professor of Philosophy in the University of Paris*

## STATED LECTURESHIPS

## Jesup Lecturers

- |         |                                   |   |
|---------|-----------------------------------|---|
| 1905    | Professor OSBORN, . . . . .       | The Evolution of the Horse                |
| 1908-09 | Professor MACLAURIN, . . . . .    | Light                                     |
| 1910-11 | Professor LEE, . . . . .          | Scientific Features of Modern<br>Medicine |
| 1912-13 | Professor T. H. MORGAN, . . . . . |   |

### Blumenthal Lecturers

- |      |                                     |   |
|------|-------------------------------------|---|
| 1907 | ALBERT SHAW, LL.D.....              | Practical Problem in American<br>Politics                                   |
|      | WOODROW WILSON, Ph.D., LL.D.....    | Party Government in the United<br>States                                    |
| 1908 | JEREMIAH W. JENKS, Ph.D., LL.D..... | The Principles of Politics from the<br>Viewpoint of the American<br>Citizen |
| 1909 | HENRY JONES FORD.....               | Cost of National Government   |
|      | SAMUEL W. MCCALL, LL.D.....         | The Business of Congress  |
| 1912 | JOHN SHARP WILLIAMS.....            | The Permanent Influence of Jef-<br>ferson on American Institutions          |

## Hewitt Lecturers

- |         |                             |   |
|---------|-----------------------------|---|
| 1901-02 | Professor BURR.....         | Civil Engineering Subjects                                  |
| 1902-03 | Professor J. G. CURTIS..... | Physiology of the Nervous Sys-<br>tem and the Related Parts |
| 1903-04 | Professor CLARK.....        | The Problem of Monopoly                                     |
| 1904-05 | Professor TRENT.....        | Six Writers of the 18th Century                             |
| 1905-06 | Professor COHN.....         | Republican France   |
| 1906-07 | Professor CRAMPTON.....     | Doctrine of Evolution                                       |
| 1907-08 | Professor SHEPHERD.....     | South America   |
| 1908-09 | Professor GIES.....         | The Chemistry of Digestion                                  |
| 1909-10 | Professor LUCKE.....        | Power   |
| 1910-11 | Professor LAWRENCE.....     | Social Ideal in Popular Stories                             |
| 1911-12 | Professor SHOTWELL.....     | The Industrial Revolution                                   |
| 1912-13 | Professor MONTAGUE.....     | The Great Systems of Philosophy                             |

### Carpentier Lecturers

- |      |                             |   |
|------|-----------------------------|---|
| 1905 | JAMES BRYCE, LL.D.....      | Law in its Relations to History   |
| 1908 | JOHN CHIPMAN GRAY, LL.D.... | The Nature and Sources of the Law   |
| 1911 | DAVID JAYNE HILL, LL.D..... | The Problem of World Organization<br>as Affected by the Nature of the<br>Modern State |
| 1912 | Sir FREDERICK POLLOCK.....  | The Genius of the Common Law  |

## ALUMNI COUNCIL

In order to afford the alumni direct and responsible representation upon the Board of Trustees of the University, six of its members may be nominated, subject to certain conditions, by the alumni. The trustees elected upon such nomination are styled "alumni trustees," the three now in office being Benjamin Bowden Lawrence, '78 S, William Fellowes Morgan, '80, '84 S, and James Duane Livingston, '80. Five general and eighteen local associations sent delegates to the meeting called for the nomination of the third alumni trustee.

The Alumni Council serves as a clearing house for all alumni activities, and is closely associated with the committees on appointment of graduates and employment of students.

## ALUMNI ORGANIZATIONS

### General

*Alumni Council.*—J. Howard Van Amringe, '60, chairman; George Brokaw Compton, '09, secretary, Columbia University.

*Society of the Early Eighties.*—Reginald H. Sayre, '81, president; Girard Romaine, '82, secretary, 68 Broad Street.

*Society of the Older Graduates.*—Pierre de P. Ricketts, '71 S, '76 Ph.D., president; William de L. Benedict, '74 S, secretary, 19 Cedar Street.

*Society of the Upper Eighties.*—Charles H. Mapes, '85, '89 S, president; Edward L. Dodge, '88, secretary, 32 Nassau Street.

*Columbia College.*—William A. Meikleham, '86, president; George Brokaw Compton, '09, secretary, Columbia University.

*School of Medicine.*—Walter Mendelson, '79 M, president; Henry E. Hale, Jr., '96 M, secretary, 770 West End Avenue.

*School of Law.*—George L. Ingraham, '69 L, president; Lawrason Riggs, Jr., '03, '06 L, secretary, 27 William Street.

*Schools of Mines, Engineering, and Chemistry.*—Francis M. Simonds, '87 S, president; Ralph E. Mayer, '79 S, secretary, Columbia University.

*School of Fine Arts.*—Goldwin Goldsmith, '96 Arch., president; Shiras Campbell, '04 Arch., secretary, 103 Park Avenue.

*Doctors of Philosophy.*—George A. Soper, '99 Ph.D., president; Herbert R. Moody, '01 Ph.D., secretary, 330 Convent Avenue.

*Barnard College*.—Alice G. Chase, '96, president; Mrs. A. D. Compton, '01, secretary, 2 St. Nicholas Terrace.

*Teachers College*.—Anna M. Clark, '04 A.M., president; Flora Cutting,

'08 A.M., secretary, 99 Java Street, Brooklyn.

*College of Pharmacy*.—Dr. Joseph Weinstein, '06 Phar., president; George Hohmann, '08 Phar., secretary, 115 W. 68th St.

### Local

*California Association*.—J. R. Clark, '95 M, president; John C. Spencer, '82, '85 M, secretary, Butler Building, San Francisco, Cal.

*China Association*.—Dr. F. L. Hawks-Pott, '83, president; F. E. Hinckley, '05 Ph.D., secretary and treasurer, Clerk, United States Court for China, Shanghai, China.

*Colorado Association*.—Thomas B. Stearns, '81 S, president; Roger W. Toll, '06 S, secretary and treasurer, 790 Washington Street, Denver, Colo.

*Columbia (Missouri) Association*.—Isidor Loeb, '01 Ph.D., president; E. W. Hinton, '91 L, secretary, Columbia, Mo.

*Connecticut Association*.—Rev. N. Ellsworth Cornwall, '62, president; John D. Irving, '96, secretary, Yale University, New Haven, Conn.

*Cuba*.—Dr. Aristides Agramonte, '92 M, president; Humberto Fonts, '09 S, secretary, Empedrado 59, Havana, Cuba.

*District of Columbia Association*.—Marcus Benjamin, '78 S, president; George O. Totten, Jr., '91 Arch., secretary, 808 17th Street, N. W., Washington, D. C.

*Illinois Association*.—William M. L. Fiske, '00, president; Dr. Emory Hill, '04, secretary and treasurer, 22 E. Washington St., Chicago, Ill.

*Indiana Association*.—N. Waring Barnes, '03, '05 A.M., president; George H. Danton, '02, '07 Ph.D., secretary, Butler College, Indianapolis, Ind.

*Japan*.—Prof. Naokichi Matsui, '78 S, president; Rev. Kentok Hori, '07 A.M., secretary, College of Literature, Imperial University of Tokio, Tokio, Japan.

*Kansas City Association*.—John C. Meredith, '86 L, president; Walter S. Sutton, '07 M, secretary, 810-815 Rialto Building, Kansas City, Mo.

*Kentucky Association*.—George G. Briggs, '88 L, president; F. A. Busse, '03 S, secretary, 800 Third Street, Louisville, Ky.

*Louisiana Association*.—Ralph J. Schwarz, '05 L, president; secretary, resigned.

*Madison (Wisconsin) Association*.—John L. Kind, '06 Ph.D., president; secretary, resigned.



*Mexico.*—Victor M. Braschi, '81 S, president; Herbert C. Enos, '06 S, secretary, P. O. Box 1583, Gante No. 1, Mexico City, Mexico.

*Michigan Association.*—E. Taylor Tappey, '79 M, president; Theodore A. McGraw, Jr., '02 M, secretary, 73 Cass Street, Detroit, Mich.

*Minnesota Association.*—James A. Quinn, '80 M, president; Prof. Gregory D. Walcott, '99 A.M., '04 Ph.D., secretary and treasurer, Hamline University, St. Paul, Minn.

*Nashville Association.*—Paul F. Eve, '80 M, president; Eugene Tavenner, '01, secretary, Murfreesboro, Tenn.

*Nebraska Association.*—Harley G. Moorhead, '02 L, president; Dr. C. W. Pollard, '99 M, secretary, Paxton Block, Omaha, Neb.

*New England Association.*—Frederick R. Kneeland, '99 S, president; Franklin S. Hoyt, '05 A.M., secretary and treasurer, care Houghton, Mifflin & Co., 4 Park Street, Boston, Mass.

*New Jersey Association.*—William O. Wiley, '82, president; W. G. Brandley, '08, secretary, Caldwell, N. J.

*New York (Northern) Association.*—Roeliff H. Brooks, '00, president; Barnard S. Bronson, '08, secretary, State Normal School, Albany, N. Y.

*New York (Western) Association.*—E. Lyman Tilden, '02 L, president; W. W. Cohn, '08, secretary, 1208 West Avenue, Buffalo, N. Y.

*North Carolina Association.*—Charles L. Raper, '02 Ph.D., president, Chapel Hill, N. C.; Henry J. Highsmith, T.C., secretary and treasurer, Wake Forest College, Wake Forest, N. C.

*Ohio (Northern) Association (Cleveland).*—H. G. Sherman, '80 M, president; Frederic William Striebinger, '95 Arch., secretary and treasurer, 1215 New England Building, Cleveland, Ohio.

*Ohio (Central) Association (Columbus).*—Organization informal. Address Professor F. P. Graves, '90, Ohio State University, Columbus, O.

*Paris Association.*—Charles F. Beach, Jr., '81 L, secretary, 95 rue des Petits-Champs, Paris, France.

*Pennsylvania (Northeastern) Association.*—J. Maxwell Carrere, '83 S, president; Clarence D. Shrady, '95 S, secretary, Allentown, Pa.

*Pennsylvania (Philadelphia) Association.*—Lemuel Whitaker, '81, president; Stanley Kidder Wilson, '02, secretary-treasurer, Swarthmore, Pa.

*Pennsylvania (Pittsburgh) Association.*—James M. Clark, '87 L., president; W. J. Strassburger, '01 Arch., secretary, Glassmere, Pa.

*St. Louis Association.*—Hon. Julius S. Walsh, '64 L, president; William E. Baird, '02 L, secretary and treasurer, Law Dept., City Hall, St. Louis, Mo.

*Utah.*—Alvah C. Lewis, '77 M, president; C. H. Doolittle, '85 S, secretary, 1242 East South Temple, Salt Lake City, Utah.

*Virginia Association.*—M. A. Martin, '05 A.M., president; Jackson Davis, '08 A.M., secretary and treasurer, Board of Examiners, Petersburg, Va.

*Washington Association.*—O. H. P. La Farge, '00 Arch., president;

H. K. Benson, '07 Ph.D., secretary, University of Washington, Seattle, Wash.

*Wisconsin Association.*—Alfred W. Gray, '99 M, president; H. W. Buemming, '95 Arch., secretary, 521 Jackson Street, Milwaukee, Wisconsin.

*Yonkers Association.*—Thomas Ewing, Jr., '85, president; James F. Prince, '08, secretary, 149 N. Broadway, Yonkers, N. Y.

## UNIVERSITY PUBLICATIONS

### I. Official Publications of Columbia University

Unless otherwise stated, all the publications named below are distributed without charge upon application to the Secretary of Columbia University.

**Annual Catalogue:** See Table of Contents, pages iii-x. Issued each December. Price, 25 cents.

**Annual Reports of the President and the Treasurer to the Trustees:** issued each November.

**Directory of Officers and Students:** issued each year soon after the opening of the University; contains the names, office hours, and addresses of the officers of the University, and the names and addresses of the students registered up to the time of publication.

**General Catalogue of the Alumni:** issued sexennially; contains the names and addresses of all graduates of the University. The current edition is that of 1912. Price, \$2.00. For sale at the University Press Bookstore and in the office of the Alumni Council.

**Announcements of the various parts of the work of the University** are issued in the spring of each year and contain detailed information concerning admission, expenses, courses of instruction to be given during the coming year, and requirements for degrees. They include:

Columbia College, for the work for men leading to the degree of Bachelor of Arts.

School of Law, for the work leading to the degree of Bachelor of Laws.

College of Physicians and Surgeons, for the work leading to the degree of Doctor of Medicine.

Schools of Mines, Engineering, and Chemistry, courses in Mining and Metallurgy, in Chemistry, and in Civil, Electrical, and Mechanical Engineering.

School of Journalism, for the work leading to the degree of Bachelor of Literature.

Faculties of Political Science, Philosophy, and Pure Science, for all non-professional advanced work leading to the degrees of Master of Arts and Doctor of Philosophy.

Faculty of Fine Arts, including courses given in the School of Architecture, the School of Music, the School of Design, and in the Departments of Fine Arts and Music in Teachers College, and courses in allied subjects.

Extension Teaching.

Residence Halls.

Summer Session.

Circular of Information as to Entrance Examinations and Admission.

Student Organizations, Athletic and Other, under the supervision of the Comptroller of Student Organizations.

Announcements of the several divisions of the University are issued in the spring, and contain full information concerning the work of the coming year, or years, in those divisions. These circulars are devoted to Ancient and Oriental Languages; Biology; Chemistry; Geology, Geography, and Mineralogy; History, Economics, and Public Law; Mathematical and Physical Science; Modern Languages and Literatures; Physical Education; Philosophy, Psychology, and Anthropology.

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Publications of Barnard College:

Announcement of Barnard College: contains full information concerning admission, expenses, courses of instruction, and requirements for the degree of Bachelor of Arts.

Report of the Dean: issued yearly.

These publications are distributed without charge upon application to the Secretary of Barnard College.

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Publications of Teachers College:

Announcements of Teachers College: (Faculties of Education and Practical Arts) issued annually; contains full information concerning the organization, equipment, and work of this institution, the Department of Education of Columbia University.

Report of the Dean: issued each November.

Special Circulars describing the work of the departments of:

Educational Psychology, History and Philosophy of Education, Educational Administration, Secondary Education, Elementary Education, Physical Education,

Kindergarten, Domestic Art, Domestic Science, Fine Arts, Industrial Arts, Music, and of other departments.

These may be obtained without charge upon application to the Secretary of Teachers College.

Circular of the Horace Mann School: a school fully equipped with kindergarten, elementary, and secondary classes, maintained by Teachers College as a school of observation.

This circular may be obtained without charge upon application to the Superintendent of the Horace Mann School.

Publications of the College of Pharmacy:

Announcement of the College ing the organization, equipment, of Pharmacy: issued annually; and work of this institution. contains full information concern-

A University Bibliography containing a list of publications, contributions, and serial studies from the University, a list of publications of the officers for the year 1912, and a list of journals issued under the editorial direction of the officers, will be published in January, 1913.

## II. The Columbia University Press

The Columbia University Press was organized with the approval of the Trustees of Columbia College and was incorporated June 8, 1893, for the purpose of promoting the publication of works embodying the results of original research. The Press is a private corporation, related directly to Columbia University by the provisions that its Trustees must always be officers of the University, and that the President of the University shall be the President of the Press.

### Trustees

THE PRESIDENT OF THE UNIVERSITY (*ex-officio*)

WILLIAM H. CARPENTER, *Secretary*

JOHN B. PINE, *Treasurer*

Professors MATTHEWS, GIDDINGS, WILSON, TRENT, LEE, and A. H. THORNDIKE, and Mr. JOHNSTON.

## III. Alumni and Student Publications at Columbia University

The Alumni Journal.—1893; published monthly in the interest of the Alumni Association of the College of Pharmacy; per copy, 10c.; per year, \$1.

The Barnard Bear.—1905; a literary supplement to the Barnard Bulletin; stories, verse, essays, editorials; monthly, Nov. to June; per copy, 20c.; per year, \$1 50.

The Barnard Bulletin.—1901; four pages, weekly, Barnard College news; per copy, 5c.; per year, \$1 50.

The Columbia Alumni News.—1909; twelve pages, weekly; except June, July, August, and September, when it is published monthly; Alumni University, and faculty news; per copy, 10c.; per year, \$2.00. Robert Arrowsmith, '81, editor; R. A. Meyers, '02, business editor.

The Bulletin of the Society of Columbia University Architects.—1906; alumni notes, news of the School of Architecture, etc.; published irregularly; per copy, 10c.; per year, 25c.



- The Columbia Bluebook.**—1900; a small handbook, containing information in regard to every form of student activity at Columbia and an engagement calendar; published by the Christain Association and distributed free to all new students in the University each year; editor for 1912-13, G. Reynolds Stearns, Jr., '13.
- The Columbia Jester.**—1901; an illustrated comic paper, monthly during the college year; averages ten pages of reading matter with illustrations, cartoon, and a cover; per copy, 15c.; per year, \$1.00 (by mail, \$1.20).
- The Columbia Law Review.**—1901; legal articles and book reviews by writers of recognized authority, and comment upon recent cases by the editors; edited by a board of about sixteen students of the school of Law; monthly, November to June (70 pp.); per copy, 30c.; per year, \$2.00.
- The Columbia Monthly.**—Founded in 1903, by the combination of the *Columbia Literary Monthly* (1893) and *Morningside* (1896); an illustrated magazine; articles on Columbia University, of historical and of immediate interest, stories, verse, essays, editorials, and book reviews; monthly, November to June; per year, \$1.00.
- The Columbia University Quarterly.**—1899; a magazine of general University information; quarterly; averages one hundred and twenty pages; per copy, 30c.; per year, \$1.00; R. Tombo, Jr., managing editor.
- The Columbian.**—The annual; a bound, illustrated volume, containing statistics of athletics, fraternity membership, class achievements, and other information concerning student life; published by third-year men, six elected from Columbia College and six from the Schools of Applied Science. Volume XXII was published by the class of 1912.
- The Columbia Spectator.**—1877; published daily, except Sunday, edited by a managing board of five, assisted by a board of six editors, and from twelve to twenty-five associate editors; per copy, 3c.; per year, \$3.50.
- The Dorms.**—1906; a bulletin of affairs at the dormitories; eight pages, weekly during the college year; dormitory news, short articles, editorials, poems, cartoons; per copy, 5c.; per year, 75c.
- The Household Arts Review.**—1908; published three times a year by the Household Arts Club of Teachers College; articles on household arts topics, book reviews, college notes, editorials, illustrations; per copy, 20c.; per year, 50c.
- The Mortarboard.**—1897; an annual corresponding to the *Columbian* but more literary in character, including, besides the history of the

junior class, poems, stories, sketches, etc.; published by a board of about eight third-year students of Barnard College; price, \$1.00.

**The Physical Education News.**—1910; eight pages, illustrated, published irregularly by the Physical Education Department, Teachers College; articles on physical education, department news and announcements, editorials; per copy, 5c.

**The School of Mines Quarterly.**—Published quarterly in the interest of the School of Mines; per copy, 25c.; per year, \$1.00.

**The Senior Class-Book.**—A book privately printed by the graduating class of Columbia College, through an editorial board, and distributed on class-day. Revived by the class of 1899, it has been continued by the succeeding classes; includes pictures and autobiographies of the members, letters from the faculty, and the class-day speeches.

**Year-Book of the Columbia University School of Architecture.**—1912; architectural annual, published by the Architectural Society, showing work in the departments of design and drawing.

## SPECIAL FUNDS

The following funds have been given to the Trustees from time to time and are held by them for the purposes specified:

### GEBHARD FUND:

Bequest of Frederick Gebhard of \$20,000, for the endowment of a professorship in the German Language and Literature. 1843

### HARSEN PRIZE FUND:

Bequest of Jacob Harsen, M.D., Class of 1825, of \$31,114.10, for the endowment of prizes to be awarded to students in the College of Physicians and Surgeons. 1859

### MOFFAT SCHOLARSHIP FUND:

Bequest of William B. Moffat, M.D., Class of 1838, of \$2000, for the endowment of scholarships. 1862

### STEVENS PRIZE FUND:

Gift of Dr. A. H. Stevens, Professor of Surgery, 1860-1867, of \$1899.88, for the endowment of a prize. 1866

### JOSEPH MATHER SMITH PRIZE FUND:

Subscription fund of \$2337.81, as a memorial of Dr. Smith, for the endowment of a prize in the College of Physicians and Surgeons. 1874

### CHANLER PRIZE FUND:

Bequest of John Winthrop Chanler, Class of 1847, of \$1000, for the endowment of an essay prize. 1877

### SCHERMERHORN SCHOLARSHIP FUND:

Bequest of John Jones Schermerhorn, Class of 1825, of \$5000, for the endowment of scholarships. 1877

### TYNDALL FELLOWSHIP FUND:

Gift of John Tyndall, LL.D., Professor of Natural History in the Royal Institution of Great Britain, of \$10,945.50, for the endowment of a fellowship in Physics. 1888

## ALONZO CLARK SCHOLARSHIP FUND:

Gift of \$14,000 as a memorial of Alonzo Clark, President of the College of Physicians and Surgeons, 1875-1884, for the endowment of a scholarship. 1887

## McKIM FUND:

Gift of Charles F. McKim of \$20,000, for the endowment of traveling fellowships in Architecture. 1889

## COLUMBIA FELLOWSHIP IN ARCHITECTURE FUND:

Gift of F. Augustus Schermerhorn, Class of 1868, of \$13,000, to the School of Architecture, applied to the endowment of a traveling fellowship in Architecture. 1889

## BARNARD FUND FOR THE INCREASE OF THE LIBRARY:

Bequest by President Barnard of \$59,501.64, and augmented by a bequest by his widow, Margaret M. Barnard, of \$16,231.67, to endow a fund for the purchase of books, especially those relating to physical or astronomical science, and for the award of a medal for discovery in Physics or Astronomy. 1889 and 1902

## BARNARD FELLOWSHIP FUND:

Bequest by President Barnard of \$10,000, for the endowment of a fellowship for encouraging scientific research. 1889

## DACOSTA FUND:

Bequest of Charles M. DaCosta, Class of 1855, Trustee 1886-1890, of \$100,000, has provided \$86,576.83, applied to the endowment of the DaCosta Professorship of Zoölogy; and of \$20,000 used for fitting up the DaCosta Laboratory of Zoölogy. 1890

## SLOANE MATERNITY HOSPITAL FUND:

Gift of William D. Sloane and Emily Thorn Vanderbilt Sloane, of \$475,000, for the endowment of the Hospital. 1890 }  
1904 }

## VANDERBILT CLINIC ENDOWMENT FUND:

Gift of Cornelius Vanderbilt, William K. Vanderbilt, Frederick W. Vanderbilt, and George W. Vanderbilt, of \$115,000, for the endowment of the Clinic. 1890

## AVERY ARCHITECTURAL FUND:

Gift of Samuel P. Avery and Mary Ogden Avery of \$30,000, in memory of their deceased son, Harry Ogden Avery. The income to be applied to the purchase of books relating to architecture, decorations, and allied arts. Augmented in 1910 by \$20,000. 1890

## LOUBAT FUND:

Gift of Joseph F. Loubat of \$7000, for the endowment of two prizes of \$1000 and \$400 to be awarded once in every five years. 1892

## TROWBRIDGE FUND:

Gift of \$10,000, for the endowment of a fellowship in Engineering as a memorial of William P. Trowbridge, Ph.D., LL.D., Professor of Mining Engineering, 1877-1892,<sup>1</sup> subject at present to a life interest. 1893

## PULITZER SCHOLARSHIP FUND:

Gift of Joseph Pulitzer of \$100,000, for the endowment of scholarships. One half of the sum to be used on improvements on the new site at 116th Street. 1893

## BENNETT PRIZE FUND:

Gift of James Gordon Bennett of \$1000 for the endowment of an essay prize. 1893

## HENRY DRISLER CLASSICAL FUND:

Gift of \$10,000, presented by Seth Low, LL.D., Class of 1870, in commemoration of the semi-centennial of Professor Drisler in the service of the College, for the endowment of a fund for the purchase of books and works of art for the Greek and Latin departments. 1894

## CLARK SCHOLARSHIP FUND:

Bequest of the late Alonzo Clark, M.D., of \$14,000, for the purpose of promoting the discovery of new facts in medical science. 1894

## GRANT SQUIRES FUND:

Gift of Grant Squires, Class of 1885, of \$1050, for the endowment of an essay prize. 1895

## STUART SCHOLARSHIP FUND:

Gift of Mrs. Cornelia A. Atwill of \$6000, for the endowment of the "Stuart Scholarships" in memory of her grandsons, Sidney Barculo Stuart, Class of 1880, and Eugene Talman Stuart, Class of 1881. 1896

## ALEXANDER I. COTHEAL FUND FOR THE INCREASE OF THE LIBRARY:

Gift of Mrs. Samuel R. Lawrence and Mrs. James R. Swords of \$6000, in memory of their brother, Alexander I. Cotheal, for the endowment of a fund for the purchase of books in the Oriental languages, or relating to Oriental subjects. 1896

<sup>1</sup> Income paid to Mrs. Trowbridge during pleasure of Trustees.



## ROBERT CENTER FUND FOR INSTRUCTION IN MUSIC:

Gift of Mrs. Mary Elizabeth Ludlow of real estate and securities valued at \$178,046.50, for the endowment of a fund for instruction in music as a memorial of her son, Robert Center, applied to the maintenance of a professorship. 1896

## STUDENTS LOAN FUND:

Gift of Jacob H. Schiff of \$5000, for the aid of needy students. 1896

## H. C. BUNNER PRIZE FUND:

Gift of \$1000, for the endowment of an essay prize. 1896

## ILLIG FUND:

Bequest of William C. Illig, Class of 1882 (S. of M.), of \$2000, for the endowment of scholarship medals. 1897

## MOSENTHAL FELLOWSHIP FUND:

Gift of friends of the late Jacob Mosenthal of \$7500, to found a fellowship in Music. 1898

## PERKINS FELLOWSHIP FUND:

Bequest of Willard B. Perkins of \$5700, for a traveling fellowship in Architecture, awarded quadrennially. 1898

## SCHIFF FELLOWSHIP FUND:

Gift of Jacob H. Schiff of \$15,000, to found a fellowship to be awarded by the Faculty of Political Science on the nomination of the donor or his eldest living male descendant. 1898

## SEIDL FUND:

The proceeds, amounting to \$12,000, of a memorial performance (March 23, 1899), in honor of the late Anton Seidl. The income to be paid to Mrs. Seidl during her lifetime, and thereafter "to be applied to a Fellowship in Music in Columbia University." 1899

## WARING MUNICIPAL FUND:

The Chamber of Commerce of the State of New York, in 1898, raised by public subscription the sum of \$100,000, to perpetuate the memory of the late Col. George E. Waring. The income thereof to be paid to the widow and daughter of Colonel Waring during their lifetime, and thereafter to be devoted to instruction in municipal affairs. 1899

FUND FOR THE ENDOWMENT OF THE ABRAHAM JACOBI WARD FOR CHILDREN  
IN ROOSEVELT HOSPITAL:

Gift of an anonymous donor of \$50,000, "to endow a ward for children  
in the Roosevelt Hospital." 1899

## BECK FUNDS:

The late Charles Bathgate Beck, A.B., Class of 1877, LL.B., Class of  
1879 (who died in 1894), bequeathed the sum of \$10,000: \$2000 to  
found one scholarship in Columbia College; \$8000 to endow a prize  
in the Law School. 1899

## TRUST FUND FOR PSYCHOLOGY:

Gift of \$100,000 of John D. Rockefeller, to endow a professorship  
in the Psychological Department. 1899

## CURTIS FUND:

Gift of the George William Curtis Memorial Committee of \$10,000,  
to establish the George William Curtis Fellowship in the School of  
Political Science. 1899

## DYCKMAN FUND:

Gift of Isaac Michael Dyckman of \$10,000, in memory of his uncles,  
Dr. Jacob Dyckman and Dr. James Dyckman, both of the College  
of Physicians and Surgeons, to establish the "Dyckman Fund for  
the Encouragement of Biological Research." 1899

## ALEXANDER MONCRIEF PROUDFIT FELLOWSHIP FUND:

Legacy of \$15,000 from the late Alexander Moncrief Proudfit, to  
found the Alexander Moncrief Proudfit Fellowship in Letters. 1899

## MARIA McLEAN PROUDFIT FELLOWSHIP FUND, SCHOOL OF MEDICINE:

Legacy of \$15,000 from the late Alexander Moncrief Proudfit, to  
found the Maria McLean Proudfit Fellowship in Medicine. 1899

## TRUST FUND FOR PSYCHOLOGY:

Gift of \$100,000 from John D. Rockefeller, as an endowment of the  
head professorship of the Psychological Department of Columbia  
University. 1899

## CARL SCHURZ FELLOWSHIP FUND:

Fund of \$10,000 from the Carl Schurz Fund Committee, to establish  
a fellowship in honor of Carl Schurz. 1900

## CARL SCHURZ LIBRARY FUND:

Fund of \$10,000 from the Carl Schurz Fund Committee, established in honor of Carl Schurz, the income to strengthen the Library in the field of the German Language and Literature. 1900

## LAW BOOK TRUST FUND:

Created by act of the Trustees on March 5, 1900, by the consolidation of the Alexander Cole Gift (\$1500): John Jay Jenkins Legacy (\$500); John McKeen Fund (\$1000); Sampson Simpson Fund (\$1000); and the Edgar J. Nathan Gift (\$250); total, \$4250, the income to be applied to the purchase of law books; and by act of the Finance Committee, October 2, 1907, by adding the Payne Law Gift (\$1000). 1900

## CAMPBELL SCHOLARSHIP FUND:

Gifts of \$3000 each from Miss Maria L. Campbell and Miss Catharine B. Campbell, for the establishment of two scholarships in the College, in memory of Robert B. Campbell of the Class of 1844, and Henry P. Campbell of the Class of 1847. 1900

## GERMAN LECTURE FUND:

Gifts to the sum of \$1000 for an endowment of Public Lectures in German at the University. 1901

## EATON PROFESSORSHIP FUND:

Bequest of the late Dorman B. Eaton of \$100,000, to endow and maintain a Professorship of Administrative Law and Municipal Science. 1901

## DEAN LUNG PROFESSORSHIP IN CHINESE FUND:

Gift of anonymous friends of \$225,000, towards the founding of a Department of Chinese Languages, Literatures, Religion, and Law, and especially for the establishment of the Dean Lung Professorship of Chinese. 1901

## CLASS OF 1848 SCHOLARSHIP FUND:

Gift of \$10,000 of an anonymous friend to found two scholarships in the College. 1902

## GEORGE WILLIAM CURTIS MEDALS FUND:

Gift of \$1300 from an associate of George William Curtis in the Civil Service Reform work to establish this fund. 1902

## PHILOLEXIAN CENTENNIAL WASHINGTON PRIZE FUND:

Gift of \$1000 to the Philolexian Society from J. Ackerman Coles, Class of 1864. The accumulated interest is to be expended every four years for a duplicate of the life-size bronze bust of George Washington, modelled from life at Mount Vernon, by Jean Antoine Houdon, to be cast at the Barbedienne Foundry, Paris, France. The bust will be given to that member of the Philolexian Society who, in the opinion of the President of the University, the President of the Society, and a third man of their choosing, shall be deemed most worthy, upon his delivery of an original patriotic address.

1902

## PHOENIX LEGACY:

Amounting at present to \$208,390.22, being on account of one-third part of the residuary estate of the late Stephen Whitney Phoenix, bequeathed to Columbia College in 1881.

1902

## JULIUS BEER LECTURE FUND:

Legacy of the late Julius Beer of \$10,000 to establish this fund.

1903

## JAMES S. CARPENTIER FUND:

Gift of \$300,000 from General Horace W. Carpentier of the Class of 1848, in memory of his brother, James S. Carpentier, for the benefit of the Law School.

1903

## GUSTAV GOTTHEIL FELLOWSHIP FUND:

Gift of \$10,000 from Temple Emanu-El to establish a fellowship, the holder to be nominated by the Professors in the Semitic Languages.

1903

## LOUBAT PROFESSORSHIP FUND:

Gift of \$100,000 from Joseph F. Loubat to establish the Loubat Professorship in American Archaeology.

1903

## RICHARD BUTLER SCHOLARSHIP FUND:

Gift of \$5000 from Mrs. Richard Butler in memory of her deceased husband, Richard Butler, open to students born in the State of Ohio.

1903

## DARLING PRIZE FUND:

Bequest of the late Edward A. Darling, formerly Superintendent of Buildings and Grounds, of \$1000 to endow an annual prize in the School of Engineering.

1903

## JOSEPH PULITZER FUND FOR SCHOOL OF JOURNALISM:

Gift of \$1,046,015.62<sup>1</sup> from Joseph Pulitzer to establish and endow a School of Journalism in Columbia University. 1903

## R. S. CARPENTIER FUND:

Gift of \$100,000 from H. W. Carpentier, '48, towards a professorship in the Medical School, in memory of Reuben S. Carpentier. 1904

## CORNELIUS HEENEY GOTTSBERGER SCHOLARSHIP FUND:

Bequest of Ellen Josephine Banker of \$9500 to establish a scholarship in memory of her deceased brother, Cornelius Heeny Gottsberger. 1904

## PHILOLEXIAN PRIZE FUND:

Fund of \$1376.80 from the Philolexian Society, the income to be paid to the Society for prizes. 1904

## TOPPAN PRIZE FUND:

Gift of \$4000 from Mrs. Sarah M. Toppan to endow, in memory of her late husband, Robert Noxon Toppan, a prize in the School of Law. 1904

## ERNEST KEMPTON ADAMS FUND FOR PHYSICAL RESEARCH:

Gift of \$50,000 from Edward D. Adams, in memory of his son, the late Ernest Kempton Adams, E.E., 1897; A.M., 1898. 1904

## GARTH MEMORIAL FUND:

Gift of \$16,250 from Horace E. Garth to establish a fellowship in Political Economy in memory of his son, the late Granville W. Garth. 1904

## GUY B. MILLER FUND:

Bequest of the late Guy B. Miller of \$10,000, of the Class of 1898, College of Physicians and Surgeons, for general purposes of the Medical School. 1904

## SCHIFF PROFESSORSHIP FUND:

Gift of \$100,000 from Jacob H. Schiff for the endowment of a Professorship of Social Economy in order to make possible a close affiliation between Columbia University and the New York School of Philanthropy. 1905

<sup>1</sup> In 1911-12 \$309,637.50 was set aside for the erection of the School of Journalism Building.



## THEODORE ROOSEVELT PROFESSORSHIP FUND:

Gift of James Speyer of \$50,000 for the endowment of a professorship of American History and Institutions in the University of Berlin.  
1905

## MATHEMATICAL PRIZE FUND:

Gift of Mrs. Louis T. Hoyt of \$5000, in memory of her nephew, John Dash Van Buren, Jr.  
1906

## E. B. CONVERS PRIZE FUND:

Gift of Miss Alice and Miss Clara B. Convers of \$1000, in memory of their brother, Ebenezer Buckingham Convers, LL.B., 1866, to endow a prize in the Law School.  
1906

## EDWARD R. CARPENTIER FUND:

Gift of Mrs. Maria H. Williamson of \$250,000 for the endowment of a professorship or an endowed lectureship on the Origin and Growth of Civilizations among Men.  
1906

## BLUMENTHAL FUND:

Gift of George Blumenthal of \$100,075 for the endowment of a Chair of Politics.  
1906

## HENRY BERGH FUND:

Anonymous gift of \$100,000, the income to be used for the inculcating of a spirit of kindness and consideration toward the lower animals.  
1907

## EARLE PRIZE FUND:

Gift of \$907.87 from the Earle Memorial Committee to establish the Earle Prize in classics.  
1907

## GEORGE G. WHELOCK FUND:

Gift of \$5000 from Mrs. George G. Wheelock and William A. Wheelock to establish, in memory of the late Dr. George G. Wheelock, the George G. Wheelock Fund, the income to be used for the needs of the Department of Physiology.  
1907

## INDO-IRANIAN FUND:

Anonymous gift of \$15,000, the income to be used for the maintenance of the Department of Indo-Iranian Languages.  
1908

## NATHANIEL CURRIER FUND:

Legacy of \$50,000, from Laura Currier, to establish the Nathaniel Currier Fund for the purchase of books for the Library.  
1908

## REVEREND ORLANDO HARRIMAN FUND:

Gift of \$102,500, from the children of the late Reverend Orlando Harriman, of the Class of 1835, as a memorial to their father, the income, until further action by the Trustees, to be applied to the salary of the Professor of Rhetoric and English. 1908

## WILLIAM MITCHELL FELLOWSHIP FUND:

Legacy of \$10,000 from the late Benjamin D. Silliman to establish, in honor and memory of his friend William Mitchell, deceased, the William Mitchell Fellowship Fund in Letters or Science. 1908

## WILLIAM BROCK SHOEMAKER FUND:

Gift of \$10,000 from Ella de Peyster Shoemaker and Henry I. Shoemaker, to establish a fund in memory of William Brock Shoemaker, of the Class of 1902, for the aid of self-supporting students. 1908

## D. WILLIS JAMES FUND:

Legacy of \$100,000, from the late D. Willis James, to be devoted to the Chair of Geology. 1908

## SAMUEL ANTHONY GOLDSCHMIDT FELLOWSHIP FUND:

Gift of \$16,250, from George B. Goldschmidt to establish and endow the Samuel Anthony Goldschmidt Fellowship in Chemistry, a memorial to Samuel Anthony Goldschmidt, of the Class of 1871. 1908

## JOHN ORDRONAUZ PRIZE FUND:

Legacy of \$3000, from the late John Ordronaux, Professor of Medical Jurisprudence, 1860-1897, and Emeritus Professor 1898-1908, to establish prizes in the Law School. 1908

## GEORGE BLUMENTHAL, JR., SCHOLARSHIP FUND:

Gift of \$14,500 from Mr. and Mrs. George Blumenthal to establish a fund for the cost of tuition of students of Medicine or for other purposes. 1909

## COLUMBIA HUDSON FULTON PRIZE FUND:

Gift of \$1000 from the representatives of the various committees having charge of the reception given on the University grounds in October, 1909, under the auspices of the Hudson Fulton Celebration Commission, the income to be used for an annual prize or prizes to be known as the Columbia Hudson Fulton Prize, or Prizes, for an athletic event. 1909

## CHARLES M. ROLKER, JR., PRIZE FUND:

Gift of \$1000 from Mrs. Charles M. Rolker, the annual income to constitute a prize to be publicly awarded on Class Day of each year to that member of the graduate class in Columbia College who, in the judgment of his classmates, has proven himself most worthy of special distinction as an undergraduate student, as a scholar, or because of his helpful participation in student activities, or because of his pre-eminence in athletic sports. 1909

## CLASS OF 1885, SCHOOL OF MINES, FUND:

Gift of \$7000 of the Class of 1885, School of Mines, in celebration of its twenty-fifth anniversary of their graduation, the income to be applied to the maintenance of a scholarship in the Schools of Applied Science. 1910

## JOHN W. BURGESS FUND:

Gift of \$100,000 from anonymous donors to the general endowment of the University. 1910

## JOHN STEWART KENNEDY ENDOWMENT FUND:

The legacy of \$1,975,000 from the late John Stewart Kennedy, a Trustee of Columbia College, 1903-1909. 1910

## DR. ABRAHAM DUBOIS MEMORIAL FUND:

Gift of \$18,000 from William A. DuBois, Matthew B. DuBois, and Katherine DuBois, the income to be applied to the maintenance of a fellowship to be known as the "Dr. Abraham DuBois Fellowship," to be open to a graduate of the College of Physicians and Surgeons devoting himself to the subject of the diseases. 1910

## CHARLES FREDERICK CHANDLER FUND:

Gift of \$5000 from Alumni, the income to be applied to the delivery and publication of at least one public lecture each year on some phase of the science of Chemistry. 1910

## PROFESSOR VAN AMRINGE PRIZE FUND:

Gift of \$2500 from George G. DeWitt, Class of 1867, to establish a prize in mathematics in Columbia College. 1910

## CAROLINE PHELPS STOKES FUND:

Legacy of \$20,000 from the late Caroline Phelps Stokes, the income to be used for lectures, prizes, or essays by the students of Columbia, Barnard College, and Teachers College. 1910

## COLUMBIA UNIVERSITY FOOTBALL ASSOCIATION FUND:

Gift of \$10,037.72 from the Columbia University Football Association, the income to be applied to the support of teams or crews representing Columbia in intercollegiate sports. 1911

## GEORGE CROCKER SPECIAL RESEARCH FUND:

Legacy of \$693,333.33 from the late George Crocker, the income to be used in cancer research. 1911

## RICHARD WATSON GILDER FUND:

Gift of \$45,362.51 from the friends of the late Richard Watson Gilder, the income to provide fellowships for the investigation and study of political and social conditions in the country and abroad. 1911

## LAW SCHOOL ALUMNI LIBRARY FUND:

Anonymous gift of \$2500, the income to be used for the increase of the Law Library. 1911

## WILLIAM T. BULL MEMORIAL FUND:

Gift of \$32,119.45 from the William T. Bull Memorial Fund Committee, the income to be applied to the cost of original research under the Department of Surgery. 1911

## CLASS OF 1901 DECENNIAL FUND:

Gift of \$1,392.81 from the Class of 1901, College and Applied Science, to be used in maintaining the work of the Committee on Employment of Students. 1911

## DEVENDORF (DAVID M.) SCHOLARSHIP FUND:

Gift of \$6,500 from Mrs. David M. Devendorf to provide a scholarship in the College of Physicians and Surgeons. 1911

## EINSTEIN FUND:

Gift of \$4,852.50 from Dr. and Mrs. Charles Waldstein, in memory of Mr. and Mrs. D. L. Einstein; to establish a prize for the best and most original work in the field of American Diplomacy. 1911

## PETERS (WILLIAM RICHMOND, JR.) FUND FOR ENGINEERING RESEARCH:

Gift of \$50,000 from Mr. and Mrs. William R. Peters, in memory of their son, William Richmond Peters, Jr., of the Class of 1911, to endow the work of research in the department of Civil Engineering. 1911

## CUTTING (W. BAYARD, JR.) FELLOWSHIP FUND:

Gift of W. Bayard Cutting of \$15,000 in memory of his son, W. Bayard Cutting, Jr., to provide a fellowship in International Law. 1912

## DEUTSCHES HAUS ENDOWMENT FUND:

Gift of \$10,000 from Adolphus Busch, to be expended in equipping and maintaining the work of the Deutsches Haus. 1912

## DOUGHTY (FRANCIS E.) SCHOLARSHIP FUND:

Bequest of \$10,000 from Phebe Caroline Swords to establish a scholarship in the College of Physicians and Surgeons. 1912

## ELSBERG (ALBERT MARION) PRIZE FUND:

Gift of \$2,000 from Mrs. Albert Elsberg, in memory of her son, Albert Marion Elsberg, of the Class of 1905, to establish a prize in Modern History. 1912

## JANEWAY LIBRARY FUND:

Gift of \$25,000 from Mrs. Russell Sage as an endowment for the E. G. Janeway Library. 1912



## ACADEMIC CALENDAR

1912-1914

- 1912—Sept. 16—Monday, Entrance examinations and examinations for deficient and debarred students begin.
- Sept. 18—Wednesday, Registration begins.
- Sept. 24—Tuesday, Registration ceases for students previously matriculated, except in the graduate schools. Later applications received only on payment of an additional fee of \$5.
- Sept. 25—Wednesday, First half-year, 159th year, begins. Registration ceases for students not previously matriculated, except in the graduate schools. Later applications received only on payment of an additional fee of \$5. Fellows and Scholars to report to the Registrar.
- Sept. 28—Saturday, Registration ceases in the graduate schools. Later applications received only on payment of an additional fee of \$5.
- Oct. 15—Tuesday, Stated meeting of University Council.
- Nov. 5—Tuesday, Election Day, holiday.
- No. 27—Wednesday, University service in St. Paul's Chapel.
- Nov. 28—Thursday, to November 30, Saturday, inclusive, Thanksgiving holidays.
- Dec. 14—Saturday, Last day for filing applications for the degree of Master of Arts, if the degree is to be conferred in February.
- Dec. 15—Sunday, Memorial Service in St. Paul's Chapel.
- Dec. 17—Tuesday, Stated meeting of University Council.
- Dec. 23—Monday to
- 1913—Jan. 4—Saturday, inclusive, Christmas holidays.
- Jan. 13—Monday, Mid-year entrance examinations begin.
- Jan. 22—Wednesday, Mid-year examinations begin.
- Feb. 4—Tuesday, First half-year ends. Last day for presenting essay for the degree of Master of Arts if the degree is to be conferred in February.

- Feb. 5—Wednesday, Second half-year begins. University service in St. Paul's Chapel. Registration ceases for students entering second half-year. Later applications received only on payment of an additional fee of \$5. Fellows and Scholars to report to the Registrar.
- Feb. 12—Wednesday, Alumni Day.
- Feb. 18—Tuesday, Stated meeting of University Council.
- Feb. 22—Saturday, Washington's Birthday, holiday.
- Mar. 1—Saturday, Last day for filing applications for University Fellowships.
- Mar. 20—Thursday, to March 24, Monday, inclusive, Easter holidays.
- Apr. 1—Tuesday, Last day for filing applications for examination for the degree of Doctor of Philosophy, if the degree is to be conferred in June. Last day for filing applications for University Scholarships.
- Apr. 15—Tuesday, Stated meeting of University Council. Last day for filing applications for the degree of Master of Arts, if the degree is to be conferred in June. Last day for filing applications for the degrees under the Faculty of Fine Arts.
- May 19—Monday, Final examinations begin.
- May 21—Wednesday, Last day for filing essay for the degree of Master of Arts, if the degree is to be conferred in June.
- May 30—Friday, Memorial Day, holiday.
- June 1—Sunday, Baccalaureate service.
- June 2—Monday, Class Day.
- June 4—Wednesday, Commencement Day.
- June 11—Wednesday, Second half-year ends.
- June 16—Monday, Entrance examinations begin.
- July 7—Monday, Fourteenth Summer Session opens.
- July 15—Tuesday, Last day for filing applications for the degree of Master of Arts, if the degree is to be conferred in October.
- Aug. 15—Friday, Fourteenth Summer Session closes.
- Sept. 15—Monday, Entrance examinations and examinations for deficient and debarred students begin.
- Sept. 17—Wednesday, Registration begins.
- Sept. 23—Tuesday, Registration ceases for students previously matriculated, except in the graduate schools. Later applications received only on payment of an additional fee of \$5.

- Sept. 24—Wednesday, First half-year, 160th year, begins. Registration ceases for students not previously matriculated, except in the graduate schools. Later applications received only on payment of an additional fee of \$5. Fellows and Scholars to report to the Registrar.
- Sept. 27—Saturday, Registration ceases in the graduate schools. Later applications received only on payment of an additional fee of \$5.
- Oct. 7—Tuesday, Last day for filing essay for the degree of Master of Arts, if the degree is to be conferred in October.
- Oct. 21—Tuesday, Stated meeting of University Council.
- Nov. 4—Tuesday, Election Day, holiday.
- Nov. 26—Wednesday, University service in St. Paul's Chapel.
- Nov. 27—Thursday, to November 29, Saturday, inclusive, Thanksgiving holidays.
- Dec. 14—Memorial Service in St. Paul's Chapel.
- Dec. 15—Monday, Last day for filing applications for the degree of Master of Arts, if the degree is to be conferred in February.
- Dec. 16—Tuesday, Stated meeting of University Council.
- Dec. 22—Monday, to
- 1914—Jan. 3—Saturday, inclusive, Christmas holidays.
- Jan. 12—Monday, Mid-year entrance examinations begin.
- Jan. 21—Wednesday, Mid-year examinations begin.
- Feb. 3—Tuesday, First half-year ends. Last day for filing essay for the degree of Master of Arts, if the degree is to be conferred in February.
- Feb. 4—Wednesday, Second half-year begins. University service in St. Paul's Chapel. Registration ceases for students entering second half-year. Later applications received only on payment of an additional fee of \$5. Fellows and Scholars to report to the Registrar.
- Feb. 12—Thursday, Alumni Day.
- Feb. 17—Tuesday, Stated meeting of University Council.
- Feb. 23—Monday, Washington's Birthday, holiday.
- Mar. 2—Monday, Last day for filing applications for University Fellowships.
- Apr. 1—Wednesday, Last day for filing applications for examination for the degree of Doctor of Philosophy, if the degree is to be conferred in June. Last day for filing applications for University Scholarships.

- Apr. 9—Thursday, to April 13, Monday, inclusive, Easter holidays.
- Apr. 15—Wednesday, Last day for filing applications for the degree of Master of Arts, if the degree is to be conferred in June. Last day for filing applications for the degrees under the Faculty of Fine Arts.
- Apr. 21—Tuesday, Stated meeting of University Council.
- May 18—Monday, Final examinations begin.
- May 20—Wednesday, Last day for filing essay for the degree of Master of Arts, if the degree is to be conferred in June.
- May 30—Saturday, Memorial Day, holiday.
- May 31—Sunday, Baccalaureate service.
- June 1—Monday, Class Day.
- June 3—Wednesday, Commencement Day.
- June 10—Wednesday, Second half-year ends.
- June 15—Monday, Entrance examinations begin.
- July 6—Monday, Fifteenth Summer Session opens.
- July 15—Wednesday, Last day for filing applications for the degree of Master of Arts, if the degree is to be conferred in October.
- Aug. 14—Friday, Fifteenth Summer Session closes.
- Sept. 14—Monday, Entrance examinations and examinations for deficient and debarred students begin.
- Sept. 16—Wednesday, Registration begins.
- Sept. 22—Tuesday, Registration ceases for students previously matriculated, except in the graduate schools. Later applications received only on payment of an additional fee of \$5.
- Sept. 23—Wednesday, First half-year, 161st year, begins. Registration ceases for students not previously matriculated except in the graduate schools. Later applications received only on payment of an additional fee of \$5. Fellows and Scholars to report to the Registrar.

The last day of the second half-year falls on the second Wednesday in June, and the academic year opens 37 weeks before that date. The second half-year opens on Wednesday, 19 weeks from the opening of the first half-year.

## SUMMARY

### OFFICERS

Professors (not including 4 administrative officers of professorial rank) .....	178
Associate Professors .....	36
Assistant Professors .....	85
Clinical Professors .....	16
Associates .....	46
Instructors .....	161
Curators .....	2
Lecturers and other Special Officers of Instruction .....	24
Assistants .....	70
Clinical Assistants .....	84
<hr/>	
UNIVERSITY OFFICERS OF INSTRUCTION .....	702
OTHER INSTRUCTORS IN TEACHERS COLLEGE .....	102
OTHER INSTRUCTORS IN COLLEGE OF PHARMACY .....	5
	<hr/> 809
UNIVERSITY OFFICERS OF ADMINISTRATION .....	39
OTHER OFFICERS OF ADMINISTRATION, TEACHERS COLLEGE AND COLLEGE OF PHARMACY .....	4
	<hr/> 43
EMERITUS OFFICERS .....	17
	<hr/>
TOTAL .....	869
HORACE MANN SCHOOL AND SPEYER SCHOOL ( <i>not included above</i> ) .....	85

### STUDENTS

COLUMBIA COLLEGE	
Fourth-year class .....	172
Third-year class .....	147
Second-year class .....	205
First-year class .....	270
Non-matriculated .....	26
	<hr/> 820
Carried forward .....	820



Brought forward.....	820
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## The School of LAW:

Third-year class.....	136
Second-year class.....	156
First-year class.....	132
Non-matriculated.....	35
	<hr/> 459

## The School of MEDICINE:

Fourth-year class.....	106
Third-year class.....	78
Second-year class.....	53
First-year class.....	84
Non-matriculated.....	15
	<hr/> 336

## The Schools of MINES, ENGINEERING, AND CHEMISTRY:

Fourth-year class.....	158
Third-year class.....	143
Second-year class.....	150
First-year class.....	169
Non-matriculated.....	14
	<hr/> 634

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Architecture.....	129
Music.....	20
	<hr/> 149

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AND PURE SCIENCE.....

1410

TOTAL.....	3808
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BARNARD COLLEGE.....	590
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School of Education.....	1379
School of Practical Arts.....	227

## COLLEGE OF PHARMACY:

(Students in University Course only included in Directory).....	420
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TOTAL.....	6424
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Carried forward.....	6424
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Brought forward.....	6424
<i>Deduct Double Registration.....</i>	334
NET TOTAL OF RESIDENT STUDENTS.....	6090
Summer Session Students, 1913.....	3602
<i>Deduct Double Registration.....</i>	748
	<hr/> 2854
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## DIRECTORY OF OFFICERS

A.	=Avery.		
B.	=Barnard College.	Hv.=Havemeyer.	S. H.=Sloane Hospital.
East.	=East Hall.	K. =Kent.	
E. H.	=Earl Hall.	L. =Library.	Sp. S.=Speyer School.
E.	=Engineering.	M. =School of Mines.	T.=Teachers College.
F.	=Fayerweather.	P. & S.=College of Physicians	U.=University.
Gym.	=Gymnasium.	and Surgeons.	V. C.=Vanderbilt Clinic.
H. A.	=Household Arts.	P. =Philosophy.	W.=West.
Hm.	=Hamilton.	Phar.=College of Pharmacy.	
H. M. S.	=Horace Mann School.	S. Schermerhorn.	

Hartley, Livingston, Whittier, Brooks=Residence Halls.

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Abbe, R. Assoc.		P. & S.	13 W. 50
Abbot, Julia W. Instr.		T.	
Abbott, A. Tr.		H. M. S.	537 W. 121
Abbott, N. Prof.		K.	
Abbott, T. J. Clin. Asst.		V. C.	113 E. 78
Adams, P. H. Clin. Asst.		V. C.	106 E. 70
Adler, F. Prof.			152 E. 77
Agger, E. E. Asst. Prof.	M. W. 10-11	708 Hm.	Otsego Pl., Engle- wood, N. J.
Aldrich, J. Clin. Asst.		V. C.	164 W. 81
Alexander, J. W. Pres. Nat'l Acad. of Design			116 E. 65
Alexander, L. H. Instr.	M.-F. 2:30-3	111 B.	660 Riverside Dr.
Altenburg, E. Asst.	W. 10-11; F. 11-12	503 S.	2803 Third ave.
Anderson, B. M., Jr. Instr.	M. W. 10-11	706 Hm.	534 W. 124
Anderson, Mary P. Tr.		H. M. S.	420 W. 119
Andrews, B. R., Sec. House- hold Arts	M.-F. 1-2; 4-5	106 T.	421 W. 121
Andrix, Iza E. Tr.		Sp. S.	94 Lawrence
Anthony, Kate S. Tr.		H. M. S.	202 W. 78
Arendt, M. Asst. Prof.	Tu. W. Th. 10-12	503 E.	The Ansonia, B'way & 73
Arnold, H. N. Lect.		K.	
Arny, H. V. Prof.		Phar.	115 W. 68
Atkinson, Louise S. Asst.		T.	196 Berkeley Pl.
Atwood, C. E. Clin. Asst.		V. C.	14 E. 60
Auchincloss, H. Instr.		P. & S.	981 Madison ave.
Ayer, T. P. Lib. Sup.		L.	627 W. 113
Ayres, D. R. Instr.		P. & S.	447 W. 59
Ayres, H. M. Asst. Prof.		606 P.	
Bach, M. G. Instr.		T.	419 W. 119
Bach, R. F. Curator	M.-F. 2-3	406 A.	728 W. 181
Bacon, G. Prof.		P. & S.	47 W. 54
Bacon, Georgia F. Tr.		H. M. S.	537 W. 121
Baer, Edith, Asst.		T.	Whittier

# DIRECTORY OF OFFICERS

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Bagster-Collins, E. W. Assoc. Prof.	M. 11-11:30; W. 2-2:30	231 T.	Montrose, N. Y.
Bailey, O. A. Tr.		H. M. S.	515 W. 124
Baker, C. M. Tr.		H. M. S.	501 W. 120
Baker, F. T. Prof.	M. W. 9:30-10	323 T.	Park Hill, Yonkers
Baker, Helen B. Tr.		H. M. S.	195 Claremont ave.
Baker, S. Josephine, Lect.		T.	33 W. 96
Balderston, Lydia R. Instr.		T.	309 W. 121
Baldt, Laura I. Instr.		T.	88 Morningside Dr.
Ballard, Anna W. Instr.		T.	120 W. 123
Ballard, C. W. Instr. Phar.			115 W. 68
Baldwin, C. S. Prof.	M. F. 11:30-12; Tu. Th. 10-10:30; M. 9-9:30; M.-F. 2:10-3	138 B; 609 P.	
Baldwin, Elizabeth G. Lib'n Teachers Coll.	M.-F. 11-12	313 T.	32 So. Parkway, E. Orange
Bancroft, F. W. Clin. Asst.		V. C.	43 W. 54
Banks, H. P. Asst.		M.	249 Madison ave.
Barrett, F. J. Asst.		P. & S.	119 W. 80
Barrett, G. H. Chief Clerk	M.-F. 9-5; S. 9-12	213 L.	257 W. 86
Barrows, Anna, Instr.		T.	421 W. 121
Barry, F. Instr.	M. W. F. 10-12	616 Hv.	Livingston
Bartholow, P. Clin. Asst.		V. C.	57 W. 45
Bartlett, F. H. Instr.		P. & S.	44 E. 63
Baruch, S. Prof.		P. & S.	51 W. 70
Bastedo, W. A. Assoc.		P. & S.	57 W. 58
Batchelder, Evelyn, Tr.		H. M. S.	415 W. 118
Batchelder, Mildred I. Tr.		H. M. S.	415 W. 118
Bayles, G. J. Assoc.			
Beans, H. T. Asst. Prof.	M.-S. 11-12	604 Hv.	601 W. 168
Beans, J. E. Instr.			
Beard, C. A. Assoc. Prof.	Absent on leave 1912-13		
Bechert, A. O. Instr.	Tu. Th. 10	114 B.	600 Decatur, Bklyn.
Beck, B. J. Clin. Asst.		V. C.	548 W. 124
Beck, S. Clin. Asst.		V. C.	500 W. 122
Becker, F. C. Lect.			534 W. 124
Beegle, Mary P. Instr.		T.	620 W. 116
Beling, C. C. Clin. Asst.		V. C.	109 Clinton ave., Newark
Bement, A. Asst. Prof.	M. Tu. F. 9-12	T.	15 W. 67
Bender, A. Instr.	S. 9-10	505 Hv.	Livingston
Bennett, Ida M. Tr.		Sp. S.	94 Lawrence
Benms, C. P. Supt. Bldgs. & Grounds Teachers Coll.	M.-S. 9-5	100 T.	195 Claremont ave.
Bensel, W. Assoc.		P. & S.	355 W. 84
Bentley, Bertha M. Tr.		Sp. S.	94 Lawrence
Berg, A. A. Assoc.		P. & S.	923 Madison ave.
Berg, H. W. Assoc.		P. & S.	923 Madison ave.
Berger, Jane, Asst. Sec. Teachers Coll.		T.	

# DIRECTORY OF OFFICERS

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NAME	OFFICE HOURS	OFFICE	RESIDENCE
Bergson, H. Visiting French Prof.			
Berkey, C. P. Asst. Prof.	Tu. Th. S. 11-12	303 S.	Palisade, N. J.
Bigelow, C. O. Treas. Coll. Phar.			113 W. 78
Bigelow, Gertrude, Tr.		H. M. S.	
Bigelow, M. A. Prof.	M. F. 9	420 T.	400 W. 118
Bigongiari, D. Instr.	M. W. 2-3	504 P.	3 Middagh, Bklyn.
Bingham, A. W. Instr. and Asst.		P. & S.	511 West End ave.
Birnbaum, S. Lab. Asst.		Hv.	
Black, A. Asst. Prof.	Absent on leave 1912-13		
Blackwell, H. B. Instr.		P. & S.	148 W. 58
Blake, J. A. Prof.		P. & S.	108 E. 65
Blanchard, A. H. Prof.		410 E.	411 W. 114
Bliss, Grace V. Sec. Dept. Fine Arts		T.	404 W. 115
Bloom, I. I. Gym. Asst.		Gym.	208 W. 111
Blumgarten, A. S. Clin. Asst.		V. C.	42 W. 94
Boas, Belle, Tr.		H. M. S.	88 Morningside Dr.
Boas, F. Prof.	Tu. Th. 10-11	301 W.	Grantwood, N. J.
Boas, Helene M. Asst.		312 B.	Grantwood, N. J.
Boehme, G. F. Clin. Asst.		V. C.	220 Audubon ave.
Bogert, M. T. Prof.	M.-F. 2-4	408 Hv.	422 W. 154
Bonser, F. G. Asst. Prof.	M. 11-12; Tu. Th. 2-3	235 T.	634 W. 135
Botsford, G. W. Prof.	W. 3:30-4:10 Absent on leave second half-year	603 K.	28 Urban, Mt. Vernon
Bovaird, D., Jr. Asst. Prof.		P. & S.	137 E. 60
Boyd, Virginia T. Clerk Barnard Coll.	M.-F. 9-5; S. 9-12	B.	618 W. 114
Boyd, W. B. Asst.		P. & S.	25 Claremont ave.
Bradish, Ethelwyn C. Instr.		T.	88 Morningside ave.
Bradley, W. L. Clin. Asst.		V. C.	55 W. 75
Brainin, C. S. Asst.	F. 10-12	409 F.	790 Riverside Dr.
Brandt, Lilian Asst.	Tu. Th. 5:10	607 K.	91 Columbia Heights, Bklyn.
Brant, Laura C. Asst.		B.	
Braun, W. A. Assoc. Prof.	Tu. 3; F. 10	113 B.	99 Claremont ave.
Bray, Corinne, Asst.		T.	Whittier
Breckenridge, W. E. Lect.		T.	345 E. 15
Brenner, E. C. Asst.		P. & S.	840 West End ave.
Brewer, G. E. Prof.		P. & S.	61 W. 48
Brewster, W. T. Prof. and Provost Barnard Coll.	Tu. Th. 11-12	109 B.	Scarsdale, N. Y. (Hartsdale, P. O.)
Briggs, Elizabeth, Tr.		H. M. S.	11½ W. 84
Briggs, T. H. Lect.		T.	533 W. 124
Brill, A. A. Clin. Asst.		V. C.	97 Central Pk., W.
Brill, N. E. Prof.		P. & S.	48 W. 76
Britton, N. L. Dir. N. Y. Bot. Garden			Bronx Park

# DIRECTORY OF OFFICERS

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Bronner, Augusta F. Asst.		T.	
Brooks, F. E. Tr.		H. M. S.	600 W. 114
Brooks, Mrs. Marie K. Tr.		H. M. S.	600 W. 114
Brown, A. J. Instr.		P. & S.	550 Park ave.
Brown, Rev. F. Pres. Union Theol. Sem.		U. T. S.	80 Claremont ave.
Brown, Grace L. Asst.		T.	419 W. 119
Brown, H. C. Instr.	Tu. 11-12	707 P.	854 W. 181
Brown, J. C. Tr.		H. M. S.	527 W. 124
Brownell, E. G. Clin. Asst.		V. C.	139 W. 69
Bruce, E. L. Asst.		S.	
Buckner, Mrs. Grace H. Instr.		T.	509 W. 121
Budington, Ethel H. Lib. Sup.		L.	457 W. 123
Burd, C. G. Instr.	M. W. F. 1-2	606 Hm.	401 W. 118
Burdick, F. M. Prof.	Tu. Th. F. 10-11	406 K.	2880 Broadway
Burgess, J. W. Emer. Prof.			Newport, R. I.
Burke, Agnes, Tr.		H. M. S.	509 W. 122
Burkhart, Stella, Asst.		T.	
Burnham, A. C. Clin. Asst.		V. C.	157 W. 79
Burnside, C. H. Asst. Prof.	Tu. Th. 10	603 F.	Morsemere, N. J.
Burr, F. F. Lect.		214 B.	149 Waller ave., White Plains, N. Y.
Burr, W. H. Prof.		401 E.	New Canaan, Ct.
Burton-Opitz, R. Assoc. Prof.	Absent on leave first half-year	P. & S.	Palisade, N. J.
Bush, W. T. Assoc. Prof.			
Buswell, A. M. Lab. Asst.	M. Tu. 2-4	615 Hv.	515 W. 122
Butler, N. M. Pres.	M. Tu. Th. F. 10:30-12	213 L.	60 Morningside Dr.
Cady, C. B. Lect.		T.	15 Claremont ave.
Caldwell, H. H. Tr.		H. M. S.	Livingston
Calkins, G. N. Prof.	W. F. 3-4	604 S.	411 W. 114
Calvert, R. P. Research Asst.	M.-F. 1-4	607 Hv.	418 W. 118
Camac, C. N. B. Asst. Prof.		P. & S.	108 E. 65
Campbell, Blanche E. Tr.		Sp. S.	604 W. 125
Campbell, W. Assoc. Prof.	M. W. 11-12	502 M.	Livingston
Canfield, G. F. Prof.	M. Th. 11-12	406 K.	344 W. 72
Carlucci, G. A. Asst.		P. & S.	1954 Crotona P'kway
Carney, T. F. Clin. Asst.		V. C.	171 W. 95
Carpenter, C. D. Instr.		T.	535 W. 135
Carpenter, H. A. Lab. Asst.		Hv.	
Carpenter, W. H. Prof. and Provost	M.-S. 10-12	305 East	417 W. 117
Carr, M. L. Instr.		P. & S.	353 W. 57
Carter, H. S. Assoc.		P. & S.	66 W. 55
Cattell, J. McK. Prof.	Th. F. 2	413 S.	Garrison, N. Y.
Cecil, R. L. Instr.		P. & S.	123 E. 62
Chaddock, R. E. Assoc. Prof.	M. W. 11	501 K.	403 W. 115
Chambers, P. F. Prof.		P. & S.	49 W. 57
Chandler, C. F. Emer. Prof.			51 E. 54
Chappell, W. F. Prof.		P. & S.	7 E. 55
Clark, Ella H. Asst.		B.	607 W. 116

# DIRECTORY OF OFFICERS

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NAME	OFFICE HOURS	OFFICE	RESIDENCE
Clark, J. B. Prof.	Absent on leave 1912-13		
Clark, J. E. Clin. Asst.		V. C.	24 W. 45
Clarke, W. C. Assoc.		P. & S.	200 W. 56
Class, F. M. Instr.		P. & S.	24 W. 45
Cleasby, Elizabeth M. Tr.		H. M. S.	405 W. 118
Coblentz, V. Emer. Prof.			431 Riverside Dr.
Cocks, G. H. Instr.		P. & S.	137 E. 54
Coffey, Lois. Instr.		T.	Whittier
Cohn, A. Prof.	M.-Th. 3	502 P.	2018 Fifth ave.
Colby, Gertrude, Tr.		Sp. S.	94 Lawrence
Cole, F. N. Prof.	M. 2-3	406 E.	
Coleman, J. B. Asst.	M. Th. F. 10-11	303 F.	Livingston
Coll, A. P. Clin. Asst.		V. C.	153 Lexington ave.
Collins, H. D. Instr.		P. & S.	50 W. 55
Colsey, L. C. Clerk Gym.		Gym.	Fourth ave., Nyack, N. Y.
Combes, A. L. Asst.		T.	Livingston
Compton, G. B. Alumni Sec'y		East	420 W. 119
Condry, Margaret G. Tr.		H. M. S.	419 W. 119
Conley, D. S. Instr.		P. & S.	342 W. 56
Connell, K. A. Instr.		P. & S.	63 W. 49
Constantine, J. H. Instr.		T.	421 Manhattan ave.
Cook, Elizabeth C. Instr.		T.	Whittier
Cooley, Anna M. Asst. Prof.	Tu. F. 9-10 Absent on leave second half-year	115 H. A.	202 W. 79
Cooley, W. F. Instr.	M. F. 9-10	614 Hm.	404 W. 115
Cooper, Isabel S. Asst.		T.	435 W. 119
Corbett, Florence R. Instr.		T.	Whittier
Cornell, Grace A. Asst. Prof.	Tu. Th. 9-12; 2-5	T.	33 Alsop, Jamaica, L. I.
Coss, J. J. Asst.		605 Hm.	
Cowan, J. A. Clin. Asst.		V. C.	438 W. 44
Cox, K. Prof.			134 E. 67
Cox, R. Instr.		P. & S.	310 W. 7, Plainfield
Cragin, E. B. Prof.		P. & S.	10 W. 50
Crampton, H. E. Prof.			2880 Broadway
Crandall, Ella P. Instr.		T.	374 Wadsworth ave.
Crandon, Laura B. Tr.		H. M. S.	401 W. 118
Crawford, J. R. Instr.	M. 11-12; F. 11-12	514 Hm.;	
Creecraft, E. Instr.	M. 3-4; Th. 11-12	711 P.	Livingston
Crissey, Helen, Sec. to Prin. H. M. El. Sch.		715 Hm.	Livingston
Crocker, F. B. Prof.	Absent on leave 1912-13	H. M. S.	527 W. 121
Cunliffe, J. W. Prof. and Assoc. Dir. Sch. Journalism	M. W. F. 10-10:50	305 L.	Delafield Lane, River- dale
Curtis, C. C. Assoc. Prof.	Absent on leave 1912-13		
Curtis, E. Emer. Prof.			33 W. 69



# DIRECTORY OF OFFICERS

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Curtis, H. B. Instr.	M. W. F. 11:50	140 B.	520 W. 123
Curtis, J. G. Emer. Prof.			Chatham, Mass.
Curtis, Mary W. Asst.		T.	457 W. 123
Cussler, E. Asst.		P. & S.	76 E. 55
Dade, C. T. Clin. Asst.		V. C.	25 W. 50
Dana, H. W. L. Instr.	Th. F. 10-11	606 Hm.	Hartley
Daniell, Lucetta, Soc. Dir. Teachers Coll.	M. Tu. W. 2-4; Th. F. 10-12	108 T.	Whittier
Daniels, W. M. Lect.	Th. 2-3	512 K.	Princeton, N. J.
Danielson, C. S., Bursar	M.-F. 9:30-3:30; S. 9:30-12	East	2135 Seventh ave.
Darling, C. A. Instr.	Tu.-Th. 11-12	503 S.	421 W. 121
Darrach, W. Instr.		P. & S.	47 W. 50
Daschbach, Grace M. Lect.		T.	Carnegie Hall
Dashiell, J. F. Asst.		701 P.	
Davis, B. Asst. Prof.		408 F.	
Davis, C. E. Lab. Asst.		615 Hv.	408 W. 115
Davis, F., Jr. Assoc.		P. & S.	58 W. 47
Day, W. S. Lect.	M. W. 3	407 F.	220 Hobart ave., Sum- mit, N. J.
Dean, B. Prof.	Absent on leave 1912-13		Riverdale-on-Hudson, N. Y.
de Bacourt, P. Lect.	S. 10-12	306 Hm.	
Dederer, Pauline H. Instr.	Tu. 1-2	413 B.	549 W. 113
DeLafield, F. Emer. Prof.			5 W. 50
de la Fontainerie, F. B. Tr.		H. M. S.	Livingston
Demarest, I. C. Instr.	F. 2:10-3	510 Hm.	56 Essex, Hackensack, N. J.
Dement, Lucia W. Tr.		H. M. S.	500 W. 121
Denig, R. C. Prof.		P. & S.	56 E. 58
Derby, R. Instr.		P. & S.	131 E. 57
Detwiller, A. K. Clin. Asst.		V. C.	131 E. 57
Devine, E. T. Prof.	Tu. Th. 5	607 K.	542 W. 112
Devol, E. M. Clin. Asst.		V. C.	11 E. 48
Dewey, J. Prof.	M. W. 2-3	702 P.	40 E. 41
Dickey, F. A. Asst. Registrar	M.-F. 9-12; 2-5; S. 9-12	201 East T.	503 W. 124
Dickie, F. E. Asst.		Phar.	Livingston
Diekman, G. C. Prof.		309 B.	555 E. 23, Bklyn.
Dines, L. L. Instr.	M. W. F. 2-2:30		530 W. 123
Dingwall, Edna, Sec. to Dir. Prac. Arts		T.	439 W. 123
Dixon, Vera M. Lib'n App. Sci. Lib.			415 W. 118
Dodge, B. O. Research Asst.	Th. F. 2-5	501 S.	417 W. 121
Dodge, R. E. Prof.	Tu. Th. 3; W. F. 11	416 T.	Washington, Conn.
Donovan, Helen, Instr.		T.	622 W. 113
Dorr, G. H. Assoc.			
Doty, Katharine S. Sec. Barnard Coll.	M.-F. 10-12; 2-4; S. 10-12	B.	553 W. 141
Dow, A. W. Prof.	W. 4-5	431 T.	501 W. 120

# *DIRECTORY OF OFFICERS*

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NAME	OFFICE HOURS	OFFICE	RESIDENCE
Dowd, C. N. Prof.		P. & S.	127 W. 72
Dowd, Marie L. Tr.		H. M. S.	76 Berkeley ave., Orange
Draper, G. Instr.		P. & S.	162 E. 63
Draper, W. K. Prof.		P. & S.	121 E. 36
Drew, Lillian C. Instr.		T.	435 W. 119
Drowne, H. B. Instr.			100 Hudson
Duff, J. Lect. Phar.		V. C.	437 W. 59
Dunning, H. S. Clin. Asst.		608 K.	Hotel Marie An- toinette
Dunning, W. A. Prof.	M. W. F. 12:20		
Dutton, S. T. Prof.	M. Tu Th. F. 11-12; 3-4	H. M. S.	411 W. 114
Dwight, K. Asst.		P. & S.	1045 Madison ave.
Dwyer, J. G. Instr.		P. & S.	40 E. 41
Earl, Anita M. Asst.		T.	420 W. 119
Eastlack, H. E. Asst.		T.	Livingston
Eddy, W. H. Assoc.		P. & S.	387 Lafayette ave., Bklyn.
Edgar, A. Instr.	M. Tu. Th. F. 9-12; W. 10-12	608 Hv.	Livingston 430 W. 119
Egau, Rose F. Asst.		T.	
Egbert, J. C. Prof. and Dir. Summer Session and Ext. Teaching	Tu. Th. 3-4	306 P. Hv.	425 W. 146
Egloff, G. Lab. Asst.			
Elliott, A. H. Emer. Prof.		Gym.	167 Broadway
Elliott, E. S. Instr.		P. & S.	Livingston
Emerson, H. Assoc.		P. & S.	120 E. 62
Epstein, J. Clin. Asst.		V. C.	225 Henry
Erb, F. C. Lib. Sup.		L.	520 W. 123
Erb, F. W. Lib. Sup.		L.	520 W. 123
Erdwurm, F. Asst.		P. & S.	128 E. 34
Erskine, J. Assoc. Prof.	M. W. 11-12	612 Hm.	609 W. 115
Evans, E. M. Prof.		P. & S.	56 E. 55
Eyster, J. B. Tr.		H. M. S.	417 W. 121
Fackenthal, F. D. Sec. of the University	M.-F. 9-5; S. 9-12	213 L.	930 St. Mark's ave., Bklyn.; 407 W. 117
Fales, Jane T. Asst. Prof.	M. W. 2-3; 4-5; F. 10-12		
Farnsworth, C. H. Assoc. Prof.	M. 1-2; Th. 10-11	308 H. A. 706 T.	622 W. 113 30 Mountain ave., Edgewater, N. J.
Farrand, L. Prof.	M. 11:30; 3	302 W.	Boonton, N. J.
Farrington, F. E. Assoc. Prof.	M. W. F. 10-11	218 T.	Park Hill, Yonkers
Farrington, Kathryn, Sec. Bureau of Publications		T.	2180-80, Bensonhurst, L. I.
Farwell, H. W. Instr.	W. 4-5	401 F.	527 W. 124

# DIRECTORY OF OFFICERS

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Fette, F. C. Instr.	Tu. Th. 9-10; F. 2-5; S. 10-12	Gym.	Livingston
Fetter, F. A. Lect.	Tu. 4-5	512 K.	Princeton, N. J.
Fettke, C. R. Asst.	M. W. F. 11-12	301 S.	Livingston
Finch, J. K. Instr.	M. Tu. Th. F. 11-12	407 E.	130 Claremont ave.
Finch, Ruth S. Asst.		B.	435 W. 123
Fischer, C. A. Instr.	Tu. Th. 11-11:30	215 Hm.	520 W. 123
Fischer, H. Instr.		P. & S.	1016 Lexington ave.
Fisher, H. L. Instr.	M.-F. 1-4	402 Hv.	3 Louisa Pl., Wee- hawken, N. J.
Fisk, J. C. Clin. Asst.		V. C.	2030 Broadway
Fiske, T. S. Prof.	M. W. 3:30	508 F.	Faculty Club
Fitch, Lura P. Tr.		H. M. S.	Whittier
Fite, W. B. Prof.	Tu. Th. 10:30-11	209 Hm.	3681 Broadway
Fletcher, J. B. Prof.	M. W. 2-3	612 P.	112 E. 22
Fontaine, C. Asst. Prof.	M. W. F. 10-11	308 Hm.	541 W. 124
Ford, G. B. Lect.		A.	404 W. 115
Fortgang, Janet, Asst.		T.	
Fortier, E. J. Instr.	M. W. F. 3	305 Hm.	557 W. 124
Fössler, Anna K. Lib. Sup.		L.	540 W. 122
Foster, N. B. Assoc.		P. & S.	69 E. 54
Fox, D. R. Lect.		V. C.	616 Madison ave.
Fox, G. H. Clin. Asst.		137 B.	2567 Sedgwick ave.
Fox, Harriet R. Lect.	M. W. 1-2	306 W.	
Frachtenberg, L. J. Lect.		T.	Whittier
Frame, Elsa L. Asst.		T.	Whittier
Francis, Charlotte A. Instr.			
Freas, T. B. Asst. Prof. and Curator	M.-S. 9-12; 2-5	614 Hv.	130 Claremont ave.
French, A. T. Tr.		H. M. S.	527 W. 124
French, D. C. Prof.			125 W. 11
French, Lucile G. Instr.		T.	405 W. 118
Fried, H. Clin. Asst.		V. C.	20 E. 113
Frieder, W. Clin. Asst.		V. C.	80 St. Nicholas ave.
Friedman, G. A. Clin. Asst.		V. C.	123 E. 95
Friedson, M. Clin. Asst.		V. C.	38 Stuyvesant
Frissell, L. F. Assoc.		P. & S.	113 E. 56
Fromme, F. D. Asst.		512 S.	523 W. 123
Frothingham, R. Instr.		P. & S.	616 Madison ave.
Fullerton, G. S. Prof.	Absent on leave 1912-13		
Galland, R. Lect.			Livingston
Gallaudet, B. B. Asst. Prof.		P. & S.	110 E. 16
Gambrill, J. M. Asst.		T.	Livingston
Gardner, H. F. Instr.		106 S.	Hartley
Garretson, W. V. P. Clin. Asst.		V. C.	112 W. 85
Garrison, Charlotte G. Instr.		T.	439 W. 123
Garrison, Myrtle, Tr.		H. M. S.	509 W. 122
Gates, W. J. Sec. Gym.		Gym.	205 W. 101
George, Theodora, Registrar Teachers Coll.	M.-F. 9-4:30; S. 9-12	104 T.	528 W. 123
Gerig, J. L. Assoc. Prof.			

# DIRECTORY OF OFFICERS

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NAME	OFFICE HOURS	OFFICE	RESIDENCE
Gerster, A. G. Prof.		P. & S.	34 E. 75
Gibbs, Winifred S. Asst.		T.	70 Irving Pl.
Gibney, V. P. Prof.		P. & S.	16 Park ave.
Giddings, F. H. Prof.	M. 2:30; F. 1:30	504 K.	814 West End ave.
Gies, W. J. Prof.		P. & S.	615 W. 115
Gilbert, Katharine, Tr.		H. M. S.	752 West End ave.
Gildersleeve, Virginia C.			
Prof. and Dean of Barnard College	M. W. F. 11-12; M. 2-2:30; Th. 10:30-11:30; 2:30-3:30	B. P. & S. H. M. S.	404 Riverside Dr. 65 W. 54 415 W. 118
Gillette, C. Asst.			
Gillmore, Mary B. Tr.			
Goetze, F. A. Dean Fac. App.			
Sci. and Cons. Engineer	M. F. 4-5; W. 12	405 E.	411 W. 117
Gohdes, W. H. Tr.		H. M. S.	Livingston
Gold, J. D. Clin. Asst.		V. C.	839 Myrtle ave., Bridgeport, Conn.
Goldenweiser, A. Lect.		305 W.	
Goldfarb, S. J. Clin. Asst.		V. C.	57 W. 111
Good, F. F. Instr.		T.	344 W. 36
Goodale, Grace H. Lect.	M. 2-4; Th. 11-12	331 B.	Whittier
Goodfriend, N. Clin. Asst.		V. C.	243 E. 72
Goodnow, F. J. Prof.	M. W. 3-4	511 K.	46 Riverside Dr.
Goodrich, Anne W. Lect.		T.	
Goodrich, H. B. Asst.		602 S.	Livingston
Goodridge, F. G. Asst.		P. & S.	122 E. 78
Goodsell, Willystine, Asst.			
Prof.	M. F. 2	321 T.	405 W. 118
Goodwin, R. E. Asst.	M.-S. 10-11	406 E.	46 W. 84
Gordon, D. Instr.		P. & S.	61 W. 48
Gottheil, R. J. H. Prof.	M. Tu. 3	405 P.	417 Riverside Dr.
Goucher, F. S. Asst.		208 P.	Livingston
Gover, Helen B. Tr.		Sp. S.	94 Lawrence
Grabau, A. W. Prof.	M. W. F. 11-12	101 S.	Scarsdale, N. Y.
Graetz, W. C. Asst.	M. Tu. W. F. 2-4	206 E.	Hartley
Graham, Margaret, Instr.		T.	163 W. 105
Graham, W. S. Clin. Asst.		V. C.	82 W. 12
Graves, G. H. Instr.		212 Hm.	
Gray, R. P. Instr.		T.	420 W. 119
Green, Helen S. Asst.		T.	Whittier
Green, J. C. Instr.	Tu. Th. 11-12	Hm.	Livingston
Greenwood, D. Grace, Asst.			
Soc. Dir.			Whittier
Gregory, Louise H. Instr.	Th. 1	403 B.	80 Morningside Dr.
Gregory, M. S. Assoc.		P. & S.	Bellevue Hosp'l
Gregory, W. K. Assoc.	Tu. W. F. 2-4	Am. Mus.	
		Nat. Hist.	160 W. 78
Groeschel, L. B. Clin. Asst.		V. C.	540 W. 160
Grout, G. H. Instr.		P. & S.	The Wellsmore, B'way & 77
Grove, C. C. Asst. Prof.	M. W. F. 9-2	204 Hm.	3129 Broadway
Guernsey, R. Instr.	M. W. 11-12	515 Hm.	507 W. 124
Gunn, Mrs. Lilian M. Instr.		T.	407 W. 123

# DIRECTIONS OF OFFICERS

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Gunther, Emma H. Asst.		T.	509 W. 121
Guthrie, W. D. Prof.	Tu. 10	411 K.	28 Park ave.
Haas, S. V. Asst.		P. & S.	666 West End ave.
Haberman, J. V. Instr.		P. & S.	60 W. 85
Haeseler, P. C. Asst.	M. Tu. 4-5	609 Hv.	1295 Fulton ave.
Haig, R. M. Instr.	Tu. 9-10; W. 10-11	512 K.	221 Sherman ave.
Haikey, Tula L. Asst.		T.	620 W. 116
Hale, H. E., Jr. Instr.		P. & S.	770 West End ave.
Hall, E. J. Asst. Prof.	M. W. F. 11-12	602 M.	78 Park ave., Passaic, N. J.
Hall, W. H. Cond. Univ. Chorus			49 Claremont ave.
Hall, W. H. Lect.		T.	
Haller, W. Instr.	Tu.-Th. 1:10-2-10	136 B.	Livingston
Hallock, W. Prof.	M. W. F. 11:50-12	406 F.	3609 Broadway
Hamilton, B. W. Clin. Asst.		V. C.	125 W. 76
Hamlin, A. D. F. Prof.	M. W. F. 10	503 A.	105 Morningside ave. E.
Hanckel, Mary B. Instr.		T.	
Hardenberg, D. S. Clin. Asst.		V. C.	
Harper, R. A. Prof.	Tu. Th. 2-3	513 S.	5936 Bainbridge ave.
Harriman, C. A. Asst. Prof.		501 A.	417 W. 114
Harrington, T. H. Asst. Prof.		604 E.	Scarsdale, N. Y.
Harris, Gertrude T. Tr.		H. M. S.	400 W. 118
Hart, T. S. Assoc.		P. & S.	130 W. 59
Hartley, F. Prof.		P. & S.	61 W. 49
Harvey, S. C. Instr.		P. & S.	600 W. 163
Haskell, Mrs. Juliana S. Instr.	F. 11-12	113 B.	624 W. 139
Havens, Gertrude, Asst.		T.	
Haviland, C. F. Clin. Asst.		V. C.	State Hosp'l, Kings Park, L. I.
Hawkes, H. E. Prof.	M.-S. 9-10	201 Hm.	549 Riverside Dr.
Hayden, J. R. Prof.		P. & S.	121 W. 55
Hayes, C. H. Asst. Prof.	W. 2; F. 11	710 Hm.	633 W. 115
Haynes, R. S. Instr.		P. & S.	375 West End ave.
Hayt, E. K. Asst. Regis. and Asst. Bursar	M.-F. 10-5; S. 10-1	P. & S.	104 W. 128
Hazen, T. E. Asst. Prof.	F. 1	320 B.	Livingston
Heaton, D. R. P. Clin. Asst.		V. C.	214 W. 110
Hehre, F. W. Instr.	M. Tu. W. Th. S. 1-4	206 E.	373 W. 116
Hensel, O. Instr.		P. & S.	106 E. 81
Hepburn, J. S.		P. & S.	600 Riverside Dr.
Herrick, A. L. Instr.	M. Tu. W. Th. S. 4-5	E.	608 W. 184
Herrick, W. W. Instr.		P. & S.	50 E. 53
Heuser, F. W. J. Asst. Prof.	Tu. 4; F. 10-11	404 Hm.	239 So. 5th ave., Mt. Vernon
Herrman, C. Instr.		P. & S.	250 W. 88
Hervey, W. A. Assoc. Prof. and Registrar	Absent on leave first half-year		
Hicks, F. C. Asst. Lib'n	M.-S. 10-12	201 East 202 L.	607 W. 138 611 W. 127



# DIRECTORY OF OFFICERS

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NAME	OFFICE HOURS	OFFICE	RESIDENCE
Hill, Jessica M. Asst.		T.	620 W. 116
Hill, Patty S. Asst. Prof.	Tu. Th. 4; S. 11	112 T.	620 W. 116
Hillegas, M. B. Asst. Prof.	M. 9-11; W. 1:30-2; S. 11-12	203 T.	515 W. 124
Hintze, F. F. Asst.			
Hirst, Gertrude M. Asst. Prof.	Tu. 11	212 B.	Brooks
Hirth, F. Prof.	Th. 11	401 L.	401 W. 118
Hiss, P. H., Jr. Prof.		P. & S.	
Hoagland, Jane, Asst.		T.	206 Quincy, Bklyn.
Hodgson, J. H. P. Instr.		P. & S.	29 Washington Sq.
Hohmann, G. Instr. Phar.			115 W. 68
Holden, W. A. Instr.		P. & S.	8 E. 54
Hollingworth, H. L. Instr.	Tu. Th. 3-4	420 B.	510 W. 124
Hollis, A. W. Assoc.		P. & S.	40 W. 71
Holm, G. T. Instr.		T.	
Holmes, C. H. Clin. Asst.		V. C.	50 W. 106
Holt, L. E. Prof.		P. & S.	14 W. 55
Hooker, R. S. Asst.		P. & S.	175 E. 71
Hopkins, J. G. Asst.		P. & S.	350 Washington ave., Bklyn.
Horsford, F. C. Clin. Asst.		V. C.	
Hostmann, J. Asst. Phar.			115 W. 68
Hotchkiss, Caroline W. Tr.		H. M. S.	502 W. 113
Hotchkiss, L. W. Prof.		P. & S.	59 W. 48
Howard, Clare M. Lect.	Tu. Th. 2-3	137 B.	88 Morningside Dr.
Howe, H. M. Prof.		512 M.	Bedford Hills, N. Y.
Howe, P. E. Asst. Prof.		P. & S.	318 W. 57
Howson, R. Lib. Sch. Pol. Sci.			26 Jones
Hubbard, Grace A. Assoc. Prof.	W. 12-12:30	336 B.	628 W. 114
Huber, F. Prof.		P. & S.	209 E. 17
Humphrey, E. F. Instr.	W. 9-11	704 Hm.	Livingston
Humphreys, F. B. Instr.		P. & S.	78 W. 85
Humphreys, G. H. Clin. Asst.		V. C.	510 W. 124
Hunt, E. L. Instr.		P. & S.	54 W. 50
Hunt, J. R. Assoc. Prof.		P. & S.	20 W. 50
Huntington, G. S. Prof.		P. & S.	Scarsdale, N. Y.
Hutchinson, Mary E. Prin. Tr. Sch. Sloane Hosp'l		S. H.	447 W. 59
Huttmann, Maude A. Instr.	Tu. 2-3; W. 3-3:20; Th. 11-12	337 B.	131 E. 31
Hutton, A. L. Asst.		P. & S.	257 W. 86
Hutton, F. R. Emer. Prof.			257 W. 86
Imbert, L. Instr.	Tu. Th. 3	508 Hm.	350 W. 120
Isham, R. M. Instr.	Th. 9-10	505 Hv.	34 Morningside ave.
Jackson, A. V. W. Prof.	M. 5	401 P.	668 Riverside Dr.
Jackson, D. D. Lect.	W. F. 11-11:30	401 E.	930 President, Bklyn.
Jackson, F. W. Prof.		P. & S.	555 Madison ave.
Jackson, G. T. Prof.		P. & S.	11 E. 48
Jacobi, A. Emer. Prof.			19 E. 47
Jacobus, A. M. Clin. Asst.		V. C.	131 W. 70
Jacoby, H. Prof.	Tu. Th. 9-11	610 F.	39 Claremont ave.
Jaeger, C. H. Instr.		P. & S.	471 Park ave.

# DIRECTORY OF OFFICERS

NAME	OFFICE HOURS	OFFICE	RESIDENCE
James, H. Asst.		P. & S.	130 W. 57
James, W. B. Prof.		P. & S.	17 W. 54
Janeway, T. C. Prof.		P. & S.	131 E. 60
Janvrin, E. R. P. Clin. Asst.		V. C.	191 Madison ave.
Jessup, D. S. D. Instr. and Univ. Med. Visitor	Daily 5-6; and by appointment		601 W. 113 116 E. 57
Johnson, A. B. Prof.		P. & S.	
Johnson, B. Lect.		T.	
Johnson, D. W. Assoc. Prof.	M. Th. 9-10	302 S.	160 Claremont ave.
Johnson, H. Prof.	W. 10-12 Absent on leave second half-year		
Johnston, W. D. Lib'n	M. F. 9:30-12	320 T. 201 L.	501 W. 120 628 W. 114
Jones, A. L. Chmn. Com. on Undergrad. Admissions and Assoc. Prof.	M.-S. 10-12; Daily exc. W. 1-3	310 East H. M. S.	438 W. 116
Jones, Helen, Tr.		311 Hm.	419 W. 115
Jordan, D. Asst. Prof.	M. W. F. 11	408 M.	3920 Broadway
Judd, E. K. Instr.	M.-S. 10-12		
Kammerer, F. Prof.		P. & S.	51 E. 66
Kasner, E. Prof.		309 B.	
Kaufman, J. Prof.		P. & S.	52 E. 58
Keller, Eleanor, Instr.		435 B.	417 W. 114
Keller, Helen R. Instr. Lib. Econ.		L.	609 W. 127
Kellogg, H. K. W. Clin. Asst.		V. C.	133 E. 56
Kemp, J. F. Prof.	Absent on leave first half-year	403 S.	211 W. 139
Kendall, B. W. Instr.	Tu. Th. 9-10; W. 11-12; S. 9-11	305 F.	Livingston
Kendrick, B. B. Instr.	M. F. 2-3; Tu. S. 11-12	715 Hm.	205 Puritan ave., Forest Hills Gardens, N. Y.
Kent, J. M. Clin. Asst.		V. C.	495 West End ave.
Kenyon, J. H. Instr.		P. & S.	251 W. 92
Keppel, F. P. Dean of Columbia College	M.-S. 10-12	208 Hm.	415 W. 117
Kern, E. F. Asst. Prof.	M. W. F. 10-11	404 M.	Livingston
Kersey, P. J. Tr.		H. M. S.	Livingston
Kessel, L. Clin. Asst.		V. C.	146 Central Pk., W.
Keyes, H. B. Instr.		T.	70 Morningside Dr.
Keyes, Maud V. Tr.		H. M. S.	160 Claremont ave.
Keyser, C. J. Prof.	M. W. 2-3	206 Hm.	74 W. 103
Kiliani, O. G. T. Prof.		P. & S.	44 W. 77
Kilpatrick, W. H. Asst. Prof.	Tu. F. 10-11; M.-F. 11-12	T.	88 Morningside Dr.
Kilpatrick, Mrs. W. H. Asst. Soc. Dir.	M. W. F. 2-4	108 T.	88 Morningside Dr.
Kingsley, R. Instr.		P. & S.	114 E. 71
Kinne, Helen, Prof.	M. W. 11	113 H. A.	501 W. 120
Kinnicutt, F. P. Prof.		P. & S.	39 E. 35

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Kiorboe, E. A. Tr.		H. M. S.	201 W. 105
Kirchwey, Clara B. Instr.		T.	404 W. 115
Kirchwey, G. W. Prof.	M.-F. 10-11	410 K.	800 Riverside Dr.
Kirchwey, Mary F. Tr.		H. M. S.	404 W. 115
Kleinberg, S. Clin. Asst.		V. C.	547 W. 147
Knapp, C. B. Clin. Asst.		V. C.	60 W. 76
Knapp, A. H. Prof.		P. & S.	10 E. 54
Knapp, C. Prof.	Tu. Th. 1-2	331 B.	1737 Sedgwick ave.
Knox, Rev. R. C. Chaplain	M.-F. 3-4	E. H.	413 W. 117
Knudson, A. Asst.		P. & S.	1084 Amsterdam ave.
Kobler, E. W. Clin. Asst.		V. C.	171 W. 81
Koenig, N. A. Lect.	Tu. Th. 2-3	404 P.	80 W. 12
Kohn, B. Clin. Asst.		V. C.	31 W. 115
Kraft, W. J. Lect.		T.	211 N. Broadway, Yonkers
Krapp, G. P. Prof.	M. W. 4; S. 9-10	611 P.	609 W. 115
Kress, O. Instr.	M.-F. 8:30-5:20	110 Hv.	438 W. 116
Krueger, F., Kaiser Wilhelm Prof.			419 W. 117
Kunkel, O. Asst.			
Kurtz, E. L. Asst. Prof.	M. W. F. 11-12	403 M.	Livingston
La Fetra, L. E. Assoc.		P. & S.	113 E. 61
Lamb, A. R. Asst.		P. & S.	146 E. 74
Lambert, A. V. S. Assoc. Prof.		P. & S.	168 E. 71
Lambert, R. A. Assoc.		P. & S.	Livingston
Lambert, S. W. Prof. and Dean Med. Sch.	M.-F. 11	P. & S.	130 E. 35
Lamond, F. Lect.		T.	16 W. 26
Langford, Grace, Instr.		232 B.	70 Morningside Dr.
Lape, Esther E. Asst.	W. F. 11-12	137 B.	604 W. 146
Larkin, J. H. Asst. Prof.		P. & S.	498 W. 130
Latham, Azubah J. Asst. Prof.	Tu. 11-11:30; F. 10- / 10:30	213 T.	537 W. 121
Latham, Helen, Instr.		T.	620 W. 122
Latham, Marion E. Instr.	M. 11-12	313 B.	Brooks
Lavell, C. F. Asst. Prof.		T.	414 W. 120
Lawrence, Lillie M. Tr.		H. M. S.	
Lawrence, W. W. Assoc. Prof.	M. W. 11-12	605 P.	618 W. 114
Lebling, C. Curator	M.-F. 9-12; 1-5	104 S.	520 W. 122
Lee, E. A. Tr.		Sp. S.	
Lee, F. S. Prof.		P. & S.	125 E. 65
Lefferts, G. M. Emer. Prof.			212 Madison ave.
Leggett, N. B. Clin. Asst.		V. C.	Saranac Lake, N. Y.
Lennes, N. J. Instr.			
Leonard, R. J. Tr.		H. M. S.	503 W. 124
Leshure, J. Clin. Asst.		V. C.	423 Convent ave.
Leslie, F. A. Instr. Phar.			115 W. 68
Levin, I. Assoc.		P. & S.	120 W. 122
Lewis, R., Jr. Prof.		P. & S.	48 W. 40
Libman, E. Prof.		P. & S.	180 E. 64
Lieb, C. C. Assoc.		P. & S.	50 Central Pk., W.
Liggett, Mrs. N. W. Bursar of Barnard Coll.	Absent on leave first half-year	B.	

# DIRECTORY OF OFFICERS

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Likely, D. S. Clin. Asst.		V. C.	44 W. 96
Lindsay, S. M. Prof.	M. Tu. W. 10-12; Tu. Th. 3-5	611 K.	Chestnut St., Engle- wood, N. J.
Livingston, A. A. Asst. Prof.		505 P.	
Lobenstine, R. W. Instr.		P. & S.	162 E. 71
Lockhart, A. I. Tr.		H. M. S.	195 Claremont ave.
Lockwood, D. P. Asst. Prof.	M. 10:30-11; F. 1:30- 2	513 Hm.	419 W. 115
Lockwood, G. R. Prof.		P. & S.	18 E. 52
Lodge, G. Prof.	M. W. 3-4	228 T.	500 W. 121
Logan, Amy L. Asst.		T.	88 Morningside Dr.
Logo, V. L. Instr.	F. 10-11	512 Hv.	537 W. 121
Loiseau, L. A. Asst. Prof.	Tu. 3-4; M. W. F. 4	310 Hm.	519 W. 121
Lombard, R. H. Instr.		609 Hv.	Livingston
Lomer, G. R. Instr.	M. 2-3; S. 11-11:30	305 L.	28 W. 63
Longcope, W. T. Assoc. Prof.		P. & S.	680 Madison ave.
Lord, A. W. Prof. and Dir.			
Sch. Arch.	Tu. 10-11	401 A.	New Canaan Ct.
Lord, H. G. Prof.	M.-S. 10-11	615 Hm.	623 W. 113
Lothrop, A. P. Assoc.		P. & S.	305 Bedford Pk. Blvd., Bedford Pk.
Lovell, E. B. Prof.		409 E.	
Lowy, A. Lab. Asst.		Hv.	
Lucke, C. E. Prof.	Daily exc. F. 11-12 Absent on leave second half-year	304 E.	544 W. 142
Lunt, F. S. Tr.		H. M. S.	515 W. 124
Luquer, L. Mcl. Asst. Prof.	W. 10-11; F. 1-2	306 S.	321 W. 80
Lyon, E. C., Jr. Instr.		P. & S.	447 W. 59
Lyons, E. Asst.		T.	
McBurney, C. Emer. Prof.			520 Park ave.
McCabe, J. Clin. Asst.		V. C.	348 Central Pk., W.
McCastline, W. H. Health & Sanitary Officer	M. W. Th. 2:30-5; Tu. F. S. 9:30- 11:30	E. H.	549 Riverside Dr.
McClure, M. T. Instr.	W. 10-11	701 P.	430 W. 118
McCormick, Mary G. Instr.		T.	
McCracken, W. Lab. Asst.		Hv.	
McCrea, N. G. Prof.	M. 3-4; Tu. 4-5	709 P.	430 W. 119
McEntee, E. J. Clin. Asst.		V. C.	196 Hancock, Bklyn.
McFarlane, C. T. Controller Teachers Coll.	M.-S. 10-12	T.	500 W. 121
McGowan, Mrs. Ellen B. Instr.		T.	281 Edgecombe ave.
McGowin, Margaret O. Instr.		T.	88 Morningside Dr.
McGregor, J. H. Asst. Prof.	M. F. 11-12	610 S.	Livingston
McKeown, Matilda J. Asst.		T.	549 Riverside Dr.
McKinley, J. A. Asst.		605 E.	4338 Park ave.
McKirahan, W. W. Lab. Asst.	M.-F. 1-4	409 Hv.	416 W. 118
McLane, J. W. Emer. Prof.			107 E. 38
McMurry, F. M. Prof.	M. W. F. S. 11	202 T.	9 Hillside Dr., Yon- kers

NAME	OFFICE HOURS	OFFICE	RESIDENCE
McMurtry, C. W. Instr.		P. & S.	812 Fifth ave.
McVey, Florence M. Tr.		H. M. S.	
McWilliams, C. A. Instr.		P. & S.	32 E. 53
MacAlarney, Emma L. Tr.		H. M. S.	500 W. 121
MacAlarney, R. E. Assoc. Prof.	M.-F. 11-12	718 Hm.	500 W. 121
MacCallum, W. G. Prof.		P. & S.	981 Madison ave.
Macdonald, S. L. Exch. Instr.		212 Hm.	542 W. 124
Macgregor, J. S. Instr.	Absent on leave 1912-13		
Maclay, J. Prof.	M. W. F. 11-12	506 Hm.	422 W. 122
Macrae, R. M. Clin. Asst.		V. C.	64 Vanderbilt ave., Clifton, S. I.
Macumber, J. L. Clin. Asst.		V. C.	291 De Kalb ave., Bklyn.
MacVannel, J. A. Prof.	M. W. 3-4; S. 11-12	220 T.	411 W. 115
Macy, Cornelia P. Recorder		419 L.	
Main, G. Asst. Gym.		Gym.	510 W. 124
Main, T. F. Sec. Coll. Phar.		Phar.	Montclair, N. J.
Malécot, G. Asst.		T.	
Maltby, Margaret E. Asst. Prof.	Th. 11-12; W. 2-3	240 B.	400 W. 118
Manchester, Mrs. Melinda I. Instr.		T.	508 W. 122
Manning, G. R. Clin. Asst.		V. C.	216 W. 100
Mansfield, W. Prof.		Phar.	115 W. 68
March, Maud, Instr.		T.	527 W. 121
Marquette, W. G. Assoc. Prof.	W. 9-10	510 S.	108 W. 111
Marshall, Florence M. Tr.		H. M. S.	519 W. 121
Martin, C. J. Instr.		T.	208 W. 184
Martin, D. C. Clin. Asst.		V. C.	246 W. 108
Martin, W. Assoc.		P. & S.	25 W. 50
Martin, H. W. Tr.		H. M. S.	431 Audubon ave.
Mason, D. G. Asst. Prof.	M. 4-4:30	606 M.	207 W. 55
Mason, F. L. Instr.	Tu. F. 9-12	501 E.	341 E. 152
Mason, H. H. Instr.		P. & S.	147 E. 62
Mathews, F. S. Instr.		P. & S.	62 W. 50
Matthews, B. Prof.	Tu. Th. 4	604 P.	681 West End ave.
Matthews, F. Assoc.	Tu. Th. S. 9	615 K.	427 Manor ave., Woodhaven, L. I.
Mayer, R. E. Assoc. Prof.	Tu. Th. 9-11	602 E.	151 Prospect ave., Mt. Vernon
Messer, W. S. Instr.	M. 2	510 Hm.	Livingston
Metzger, F. J. Asst. Prof.	M. W. F. 11-12	507 Hv.	90 Morningside Dr.
Meyer, Anna E. H. Registrar of Barnard Coll.	M.-S. 10-12; Tu. Th. F. 2-4	110 B.	15 Cedar Pl., Yon- kers
Meylan, G. L. Assoc. Prof. and Med. Dir. Gym.	M.-F. 1:30-5; M. W. F. 10-11; S. 10-12	Gym.	468 W. 141
Michael, O. Tr.		H. M. S.	416 W. 118
Michaelis, A. Instr.		P. & S.	15 W. 88
Miller, A. M. Instr.		P. & S.	142 So. 10, Newark
Miller, D. S. Prof.			



# DIRECTORY OF OFFICERS

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Miller, E. G. Asst.		P. & S.	346 W. 57
Miller, J. A. Asst. Prof.		P. & S.	18 W. 51
Miller, R. F. Lib'n Col. Coll.		Hm.	230 W. 107
Miller, S. O. Asst. Prof.			
Mitchell, H. B. Prof.	Tu. Th. 9:30-10	304 Hm.	80 Wash'n Sq.
Mitchell, S. A. Asst. Prof.	Absent on leave 1912-13		
Moak, H. Asst.		P. & S.	360 Park Pl., Bklyn.
Monroe, P. Prof.	M. W. 3-4 Absent on leave second half-year	321 T.	44 Prospect Dr., Yonkers
Montague, W. P. Assoc. Prof.	Absent on leave first half-year	335 B.; 707 P.	265 Henry
Moore, Annie E. Instr.		T.	419 W. 119
Moore, F. G. Prof.	Tu. F.	504 Hm.	15 Claremont ave.
Moore, H. L. Prof.		501 K.	
Moore, J. B. Prof.	M.-F. 10-4	513 K.	267 W. 73
Moore, W. C. Instr.	M.-S. 11:30-12	608 Hv.	411 W. 115
Morecroft, J. H. Asst. Prof.	F. 10-11	508 E.	Livingston
Morgan, J. L. R. Prof.	M.-S. 10-11	411 Hv.	
Morgan, O. S. Prof.	M.-F. 3-4	511 S.	400 Convent ave.
Morgan, T. H. Prof.		S.	409 W. 117
Morse, L. B. Instr.		410 F.	509 W. 124
Mosenthal, H. O. Instr.		P. & S.	157 W. 79
Moses, A. J. Prof.	M.-F. 4-5	307 S.	605 W. 141
Moss, Louise B. Asst.		T.	511 W. 122
Mudge, Isadore G. Ref. Lib'n		L.	430 W. 119
Muller, H. F. Instr.	M. W. F. 11-11:30; 3-3:30	112 B.	629 W. 135
Muller, H. J. Asst.		613 S.	562 W. 150
Munroe, H. S. Prof.	M. F. 11-12	407 M.	501 W. 120
Murphy, R. K. Instr.	M. W. F. 10-11	Hv.	514 W. 114
Murphy, W. H. Asst.		204 F.	Livingston
Mussey, H. R. Assoc. Prof.	M. 2:30-3; Tu. Th. 9:30-10	308 B.	Croton, N. Y.
Muzzey, D. S. Assoc. Prof.	Tu. Th. S. 11-12	338 B.	492 Van Cortlandt Park ave., Yonkers
Myers, E. E. Clin. Asst.		V. C.	418 Central Pk., W.
Myers, J. Sec. Earl Hall	M.-S. 10-1; 3-5	E. H.	309 W. 70
Nagle, W. J. Tr.		H. M. S.	Hartley
Neergaard, A. E. Asst.		P. & S.	617 West End ave.
Neilson, Sarah M. Asst. Ed. Museum		T.	528 W. 123
Neish, A. C. Instr.	M. Tu. Th. F. 10-12	610 Hv.	130 Claremont ave.
Neitz, J. D. Tr.		H. M. S.	527 W. 124
Nelson, J. M. Instr.	M.-F. 2-3	408 Hv.	531 W. 124
Nilsen, Alma, Sec. to Prin. H. M. H. S.		H. M. S.	27 W. 88
Nilsen, Atossa, Sec. to Supt. H. M. S.		H. M. S.	27 W. 88
Nisselson, M. Clin. Asst.		V. C.	977 Tiffany
Norrie, V. H. Prof.		P. & S.	21 W. 37

# DIRECTORY OF OFFICERS

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NAME	OFFICE HOURS	OFFICE	RESIDENCE
Norris, H. L. Supt. Bldgs. & Grounds	M.-F. 10-11	110 L.	Livingston
Norsworthy, L. D. Instr.	M. W. 9-10	308 E.	Hartley
Norsworthy, Naomi, Assoc. Prof.	M. Tu. Th. F. 9	337 T.	430 W. 118
Norton, N. R. Instr.		P. & S.	
Nourse, Lilla A. Tr.		H. M. S.	575 W. 159
Noyes, Clara D. Lect.		T.	
Noyes, W. Asst. Prof.	Tu. Th. 9-10	232 T.	Leonia, N. J.
Nutting, Mary A. Prof.	M. W. 10; Tu. 11; Th. 2	110 H. A.	420 W. 118
Oastler, F. R. Assoc.		P. & S.	126 W. 59
Odell, G. C. D. Prof.	Tu. Th. 2	604 Hm.	44 W. 44
Oehler, J. Asst. Prof.		Phar.	Carlstadt, N. J.
Ogilvie, Ida H. Asst. Prof.	Th. 10-11	214 B.	29 Claremont ave.
Oliver, Mary A. Tr.		H. M. S.	503 W. 121
Osborn, H. F. Prof.			Am. Mus. Nat. Hist.
Osburn, R. C. Asst. Prof.	Tu. Th.	409 B.	557 W. 124
Osgood, C. Clin. Asst.		V. C.	58 Central Pk., W.
Osgood, H. L. Prof.		613 K.	526 W. 150
Overman, J. R. Tr.		H. M. S.	527 W. 124
Owen, M. S. Clin. Asst.		V. C.	539 W. 148
Packard, C. Asst.		602 S.	Hartley
Painter, H. M. Prof.		P. & S.	62 W. 55
Palmblad, H. V. E. Instr.	Tu. 11-11:30; F. 2	410 Hm.	41 St. Nicholas Terrace
Panuska, F. C. Asst.		T.	428 E. 77
Pappenheimer, A. M. Assoc.		P. & S.	309 W. 99
Parker, Linette A. Asst.		T.	
Parr, H. L. Asst. Prof.	Tu.-F. 4-5	207 E.	35 Gilbert Pl., Yonkers
Pascale, E. A. Clin. Asst.		V. C.	116 W. 103
Patrick, Sara L. Asst.		T.	88 Morningside Dr.
Patterson, F. A. Instr.	Tu. Th. 10-12; 2-4	306 P.	80 Morningside Dr.
Patterson, H. S. Assoc.		P. & S.	149 E. 62
Peabody, Mary G. Tr.		H. M. S.	416 W. 118
Peacock, Mary H. Instr.		T.	Whittier
Pearson, H. C. Prin. H. M. Elem. Sch.	M. Tu. Th. 2-3; W. 8:45-10	H. M. S.	501 W. 120
Peck, C. H. Prof.		P. & S.	30 W. 50
Peele, R. Prof.	M. F. 10-11; Tu. Th. 9-11	405 M.	351 W. 114
Pegram, G. B. Assoc. Prof.		406 F.	
Perrine, H. Asst.		308 E.	
Perry, E. D. Prof.	M. W. F. 3-4	708 P.	542 W. 114
Peterson, F. Prof.		P. & S.	20 W. 50
Pfeiffer, G. A. Asst.		215 Hm.	506 W. 43
Phelan, W. B. Tr.		H. M. S.	Hartley
Phelps, Alice E. Tr.		H. M. S.	405 W. 118
Phelps, G. M. Clin. Asst.		V. C.	155 E. 79
Pigott, R. J. S. Asst. Prof.	Tu. Th. 1-4	507 E.	48 Pearsall ave., Freeport, N. Y.

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Pike, F. H. Asst. Prof.		P. & S.	86 Elliott ave., Yonkers
Pitkin, W. B. Assoc. Prof.	M. W. F. 1:15-2	705 P.	Dover, N. J.
Poffenberger, A. T., Jr. Lect.		409 S.	521 W. 111
Pomeroy, C. H. Bursar			
Teachers Coll.	M.-F. 9-4:30; S. 9-12	102 T.	430 W. 119
Pool, E. H. Instr.		P. & S.	107 E. 60
Poor, C. L. Prof.	Th. F. 2	614 F.	35 E. 69
Porterfield, A. W. Instr.	M. F. 11-12	114 B.	Livingston
Potter, N. B. Asst. Prof.		P. & S.	591 Park ave.
Pou, R. E. Clin. Asst.		V. C.	20 W. 50
Powell, C. L. Instr.	F. 10-12; S. 11-12	606 Hm.	Livingston
Powell, T. R. Assoc.		511 K.	Livingston
Poyntz, Juliet S. Asst.	F. 3-5	338 B.	1843 Madison ave.
Pratt, Isabelle L. Recorder			
Teachers Coll.	M.-F. 10-12; 3-4; S. 10-12	107 T	221 W. 104
Pratt, Marion R. Sec. H. M. S.		H. M. S.	221 W. 104
Prescott, Harriet B. Lib. Sup.		L.	36 Gramercy Pk.
Prettyman, V. Prin. H. M.			
High Sch.	M. Tu. 3-4	312 H. M. S.	501 W. 120
Prévot, M. Assoc.	M. Th. 2-5	602 A.	115 E. 30
Prince, J. D. Prof.	Absent on leave second half-year	406 P.	Sterlington, N. Y.
Proben, C. I. Instr.		P. & S.	160 E. 71
Prudden, T. M. Emer. Prof.			160 W. 59
Punnett, T. W. Lab. Asst.		Hv.	
Pupin, M. I. Prof.			
Quel, B. Clin. Asst.		V. C.	217 E. B'way
Raeder, Ruth W. Asst.	M. 11-12	214 B.	601 W. 127
Rainforth, S. I. Clin. Asst.		V. C.	227 W. 71
Rautenstrauch, W. Prof.	Tu. Th. 10-11	507 E.	42 Morris, Yonkers
Reddick, H. W. Instr.	Tu. Th. 11	211 Hm.	Livingston
Redfield, H. S. Prof.	M. Tu. Th. F. 10-12	408 K.	1925 Seventh ave.
Reesor, Mary, Instr.		T.	88 Morningside Dr.
Reimer, Marie, Assoc. Prof.	Tu. 1-2	438 B.	420 W. 118
Rejall, A. E. Asst.	Tu. Th. 10-11	413 S.	54 Tompkins Pl., Bklyn.
Remy, A. F. J. Asst. Prof.	Tu. Th. F. 4-5	511 P.	204 W. 141
Reuben, M. S. Clin. Asst.		V. C.	1967 Seventh ave.
Reynolds, J. E. Assoc.	M. W. F. 5:30-6	K.	1 W. 64
Richard, E. D. Lect.	Tu. Th. 4:30-5	205 W.	12 W. 103
Richards, H. M. Prof.	M. W. 10-11	316 B.	Faculty Club
Robert, A. L. Lib'n Med. Sch.		P. & S.	401 W. 117
Robbins, Ida E. Tr.		H. M. S.	420 W. 119
Robbins, Very Rev. W. L.			
Dean Gen. Theol. Sem.		G. T. S.	1 Chelsea Sq.
Robinson, E. Dir. Met. Mus.			
Art		Fifth ave. and 82	84 Irving Pl.
Robinson, Ethel M. Tr.		Sp. S.	514 W. 122
Robinson, J. H. Prof.	Tu. Th. 9:30-11:30	601 K.	567 W. 113

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NAME	OFFICE HOURS	OFFICE	RESIDENCE
Rockwell, Bertha L. Lib. Bar-		B.	340 E. 142
nard Coll.		V. C.	68 W. 92
Roff, A. W. Clin. Asst.		H. M. S.	502 W. 113
Rogers, Lillian E. Tr.		P. & S.	346 Broadway
Rogers, O. H. Lect.			
Rose, Mrs. Mary D. S. Asst.		415 H. A.	449 W. 123
Prof.	M.-F. 12:30-1	V. C.	51 E. 96
Rosenthal, A. Clin. Asst.		T.	659 Sandford ave., Flushing
Ross, May D. Asst.			
Roy, M. M. Sec. Com. on		301 East	Grand View, Nyack
Employment for Students		607 M.	251 W. 89
Rühner, C. Prof.	Th. 10-11	338 T.	854 W. 181
Ruger, H. A. Asst. Prof.	M. W. 2-3; 5-6		
Runyon, E. W. Asst. Sec.		Phar.	14 W. 38
Coll. Phar.	M.-S. 9-5		
Rusby, H. H. Prof. and Dean		Phar.	776 De Graw ave., Newark
Coll. Phar.			
Russell, J. E. Prof. and Dean		T.	500 W. 121
Teachers Coll.	M.-F. 11	P. & S.	603 Madison ave.
Russell, J. I. Instr.			
Russell, Martha M. Supt.		S. H.	447 W. 59
Sloane Hosp'l		P. & S	43 W. 50
Ryder, G. H. Instr.			
Sachs, J. Prof.	M. W. 3-4; S. 11-12	229 T.	149 W. 81
Sait, E. M. Asst. Prof.	M. 9-11; F. 3-4	711 Hm.	421 W. 121
Sanford, Laura, Sec. Dept.			
Phys. Educ.		T.	80 Morningside Dr.
Saunders, T. L. Instr.		P. & S.	43 W. 50
Saville, M. H. Prof.	M. W. 1-2	304 W.	35 Claremont ave.
Sawyer, C. P. Press Repre-			
sentative			20 Vesey
Schnepel, G. A. Clin. Asst.		V. C.	238 W. 106
Schraner, Emma, Asst.		T.	201 W. 144
Schroeder, F. C. Instr.	M. F. 10-11; Tu. Th. 4-4:30	606 F.	220 Wadsworth ave.
Schulman, M. Instr.		P. & S.	229 W. 111
Schulte, H. von W. Assoc.			
Prof.		P. & S.	202 W. 86
Schulze, H. H. L. Instr.	Tu. 10; F. 4	409 Hm.	200 Claremont ave.
Schüssler, Amy, Prin. Sp.S.	Absent on leave	Sp. S.	
Schuyler, R. L. Asst. Prof.	M. W. 11-12	712 Hm.	616 W. 137
Schwerdtfeger, O. M. Instr.		P. & S.	54 E. 58
Scott, E. L. Instr.		P. & S.	258 Woodworth ave., Yonkers
Scott, G. A. Asst.		305 F.	4 Valley Pl., Edge- water
Scripture, E. W. Assoc.		P. & S.	236 W. 74
Seager, H. R. Prof.	Tu. 10-11; Th. 2:10- 3; F. 1:10-2	514 K.	257 W. 86
Seaman, Emily C. Instr.		T.	511 W. 112
Seely, Caroline E. Asst.		T.	523 W. 121

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NAME	OFFICE HOURS	OFFICE	RESIDENCE
Seibert, Janet R. Recorder Dept. Phys. Educ.		T.	620 W. 122
Seligman, E. R. A. Prof.	Absent on leave 1912-13		324 W. 86
Severinghaus, W. L. Instr.	Tu.-S. 2-5	405 F.	509 W. 124
Shaine, M. S. Clin. Asst.		V. C.	8 E. 131
Shapleigh, Bertha E. Instr.		T.	508 W. 122
Sharp, J. C. Instr.		P. & S.	436-9th, Bklyn.
Shear, T. L. Assoc.	Absent on leave 1912-13		
Shearer, L. H. Instr.		P. & S.	449 Park ave.
Shenton, H. N. Asst.			
Shepherd, W. R. Prof.	M. 2-4	612 K.	468 Riverside Dr.
Sherman, F. D. Prof.	M. W. F. 2-4	409 A.	158 W. 105
Sherman, H. C. Prof.	W. F. 1-2	509 Hv.	Hastings, N. Y.
Shook, F. M. Clin. Asst.		V. C.	119 Waverly Pl.
Shotwell, J. T. Prof.	Tu. 4-5	602 K.	459 W. 123
Shrady, A. M. Instr.		P. & S.	135 W. 73
Sicard, M. H. Asst.		P. & S.	616 Madison ave.
Siceloff, L. P. Asst. Prof.	M. W. F. 11-12	212 Hm.	
Sill, Ruth P. Instr.		T.	622 W. 113
Silleck, W. M. Clin. Asst.		V. C.	24 W. 50
Silver, L. M. Asst.		P. & S.	103 W. 72
Simkhovitch, V. G. Assoc. Prof.	Tu. Th. 3-4	514 K.	26 Jones
Simkhovitch, Mrs. V. G. Assoc.		T.	26 Jones
Simpson, W. B. Clerk Coll. Phar.	M.-F. 9-5	Phar.	79 N. Munn ave., E. Orange
Simpson, W. K. Prof.		P. & S.	952 Lexington ave.
Singer, D. A. Clin. Asst.		V. C.	42 W. 114
Sleffel, C. C. Asst. Prof.	Tu. Th. 1-2	32 T.	195 Claremont ave.
Slichter, W. I. Prof.	Tu. F. 9-10	504 E.	431 Riverside Dr.
Sloane, W. M. Prof.	Absent on leave 1912-13		105 E. 69
Slosson, E. E. Assoc.	M. W. F.	407 S.	530 W. 123
Smith, A. Prof.	M.-F. 9-11	302 Hv.	593 Riverside Dr.
Smith, C. S. Instr.		P. & S.	410 Plane, Newark
Smith, D. E. Prof.	Tu. Th. 11	212 T.	250 W. 88
Smith, Emma P. Sec. for Women Grad. Students	M. Tu. Th. 3-5; W. F. S. 9-10	302 P.	Brooks
Smith, E. R. Ref. Lib'n Avery Lib.	M.-F. 2-6	A.	Livingston
Smith, F. C. Clin. Asst.		V. C.	362 W. 57
Smith, Meredith, Tr.		H. M. S.	
Smith, Munroe, Prof.	M. W. 1-2	508 K.	169 E. 70
Snyder, R. G. Instr.		P. & S.	567 Park ave.
Soper, W. B. Asst.		P. & S.	820 Park ave.
Southard, Lydia, Instr.		T.	Whittier
Spaulding, W. Tr.		H. M. S.	527 W. 121
St. John, F. B. Instr.		P. & S.	981 Madison ave.
Stackpole, Caroline E. Instr.		T.	421 W. 121
Stacy, L. J. Tr.		H. M. S.	Livingston



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NAME	OFFICE HOURS	OFFICE	RESIDENCE
Stadtmüller, N. Prof.		P. & S.	132 E. 60
Stanton, A. D. Asst. Supt.		110 L.	378 Greene ave., Bklyn.
Staples, Clara G. Asst.		T.	401 W. 118
Starr, M. A. Prof.		P. & S.	5 W. 54
Stavely, E. B. Asst.	Tu.-F. 2-4	206 E.	509 W. 122
Steele, Roxana A. Tr.		H. M. S.	419 W. 119
Steeves, H. R. Instr.	F. 1-2	610 Hm.	596 Riverside Dr.
Stenquist, J. L. Tr.		H. M. S.	1120 Amsterdam ave.
Stetten, D. Instr.		P. & S.	115 W. 87
Stevens, Romiett, Asst. Prof.		229 T.	130 Claremont ave.
Stewart, H. A. Asst. Prof.		P. & S.	680 Madison ave.
Stewart, Isabel M. Instr.		T.	617 W. 127
Stifler, W. W. Lect.	Tu. 10-11; Th. 3-4	401 F.	Livingston
Stillman, A. Instr.		P. & S.	35 E. 39
Stone, H. F. Prof. and Dean Law Sch.		404 K.	2 Chestnut, Engle- wood, N. J.
Stone, Theo R. Tr.		H. M. S.	420 W. 116
Strayer, G. D. Prof.	Tu. Th. 10-11; W. 3-4	217 T.	533 W. 124
Strong, A. M. Asst.		P. & S.	250 W. 82
Strong, C. A. Prof.	Absent on leave 1912-13		
Strong, O. S. Instr.		P. & S.	Livingston
Stuart, Florence, Tr.		H. M. S.	
Sturtevant, E. Lect.	Tu. 9:30-10	137 B.	610 W. 113
Sturtevant, E. H. Instr.	M. 10:10-11	340 B.	12 Sterling Pl., Edgewater, N. J.
Sumner, A. E. Assoc.		P. & S.	127 W. 58
Sutherland, Louise C. Instr.		T.	400 W. 118
Suzzallo, H. Prof.	M. W. 10	314 T.	501 W. 120
Swann, A. W. Instr.		P. & S.	124 E. 61
Swift, G. M. Assoc.		P. & S.	20 W. 55
Sykes, F. H. Dir. Prac. Arts and Prof.	M.-F. 11-5	122 T.	Lowerre Summit Pk., Yonkers
Tannahill, Sallie B. Instr.		T.	404 W. 115
Tassin, A. De V. Asst. Prof.	Tu. Th. 11-11:30	611 Hm.	16 Gramercy Pk.
Taylor, T. F. Tr.		H. M. S.	Livingston
Teale, O. S. Asst.		T.	35 B'way
Tenney, A. A. Asst. Prof.	M. W. 5	506 K.	400 W. 118
Terriberry, W. K. Instr.		P. & S.	135 W. 47
Terry, C. T. Prof.	M. Tu. Th. F. 5:30-6	409 K.	62 E. 58
Thacher, H. C. Instr.		P. & S.	20 W. 50
Thacher, J. S. Prof.		P. & S.	20 W. 50
Thatcher, E. J. Instr.		T.	239 E. 19
Thomas, A. W. S. Instr.	M.-S. 10-12	513 Hv.	Palisades Park, N. J.
Thomas, C. Prof.	W. F. 11-12	513 P.	400 Riverside Dr.
Thomas, C. W. Asst. Prof.	M.-S. 11-12	510 E.	Warren ave., Pali- sade, N. J.
Thompson, A. W. Clin. Asst.		V. C.	224 So. Parsons ave., Flushing, N. Y.
Thompson, J. D. Law Lib'n	M.-S. 10-12	K.	490 Riverside Dr.

# DIRECTORY OF OFFICERS

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Thorndike, A. H. Prof.	Absent on leave first half-year	614 P.	Lowerre Summit, Yonkers
Thorndike, E. L. Prof.	Absent on leave first half-year	329 T.	Montrose, N. Y.
Thornton, Anna C. Instr.		T.	
Thurber, S. W. Instr.		P. & S.	104 E. 39
Thurston, E. D., Jr. Instr.	Tu. Th. F. 4-5	510 E.	511 W. 113
Tilney, F. Assoc.		P. & S.	161 Henry, Bklyn.
Tobey, Mrs. Evelyn S. Instr.		T.	195 Claremont ave.
Todd, H. A. Prof.	M. W. 4	501 P.	824 West End ave.
Tombo, R., Jr. Assoc. Prof.	M. W. F. 10-12	419 W. 117	
Trent, W. P. Prof.	Th. 12:30-1	604 P.	139 W. 78
Trowbridge, C. C. Instr.	Tu.-S. 10-11	509 F.	434 Riverside Dr.
Tucker, S. A. Asst. Prof.	M.-F. 9-4:30	102 Hy.	155 E. 61
Turnure, P. R. Instr.		P. & S.	55 W. 49
Tuttle, G. A. Assoc.		P. & S.	49 W. 49
Tyson, H. H. Instr.		P. & S.	47 W. 51
Upton, C. B. Sec. Teachers Coll. and Asst. Prof.	M. W. 3-4:30; Tu. Th. S. 10-11:30	106 T. H. M. S.	500 W. 121 500 W. 121
Upton, Mrs. Siegfried M. Tr.			
Valentine, Laura C. Lib'n Sp.S.		Sp. S.	94 Lawrence
Van Amringe, J. H. Emer. Prof.			48 W. 59
Van Arsdale, May B. Asst. Prof.	M.-F. 10-11	209 H. A.	457 W. 123
Van Beuren, F. T., Jr. Instr.		P. & S.	812 Park ave.
van der Bent, T. J. Lect.		T.	548 W. 162
Vanderbilt, Sadie B. Instr.		T.	540 Manhattan ave.
Vanderburgh, F. A. Lect.	M. 10	406 P.	53 Wash'n Sq.
Van Deventer, Mabel, Asst.		Sp. S.	94 Lawrence
Van Doren, C. Instr.	Tu. Th. 10-11	608 Hm.	414 W. 120
Van Hook, L. R. Assoc. Prof.	M. 2; Th. 10	340 B.	417 W. 114
Van Pelt, J. V. Assoc.	M. 3-4	409 A.	126 E. 80
Van Sant, J. T. Tr.		H. M. S.	609 W. 127
Van Wagenen, C. D. Clin. Asst.		V. C.	616 Madison ave.
Vaughan, J. C. Instr. and Asst.		P. & S.	181 W. 75
Vexler, F. N. Lib'n Sch. Phil.		P.	1035 Stebbins ave.
Vogel, K. M. Asst. Prof.		P. & S.	680 Madison ave.
Vogeler, W. J. Clin. Asst.		V. C.	403 Palisade ave., Yonkers
von Huffmann, O. Instr.		P. & S.	527 W. 110
Voorhees, I. W. Clin. Asst.		V. C.	14 Central Pk., W.
Voorhees, J. D. Assoc. Prof.		P. & S.	106 E. 60
Vorisek, A. Prof.		Phar.	354 E. 78
Vosburgh, A. S. Instr.		P. & S.	85 E. 56
Vulté, H. T. Asst. Prof.	W. 4-4:30	413 H. A.	33 Park ave., New Rochelle

# DIRECTORY OF OFFICERS

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NAME	OFFICE HOURS	OFFICE	RESIDENCE
Wadelton, Helen C. Recorder		419 L.	
Wadsworth, A. B. Asst. Prof.		P. & S.	114 W. 55
Wald, Lillian D. Lect.		T.	265 Henry
Walker, A. L. Prof.	M. W. 1-2	512 M.	Dongan Hills, S. I.
Walker, J. B. Prof.		P. & S.	33 E. 33
Wallace, C. Instr.		P. & S.	507 Madison ave.
Walsh, J. J. Instr.		T.	501 W. 121
Ward, F. E. Assoc.	Th. 10:30-11:45	606 M.	430 W. 118
Ward, W. Assoc.		P. & S.	24 W. 50
Ware, A. Assoc.	M.-F. 3-5	A.	90 Morningside Dr.
Ware, W. R. Emer. Prof.			Milton, Mass.
Warner, L. A. Asst. Prof.	M. 2	504 H. A.	Bronxville, N. Y.
Warren, C. P. Asst. Prof.	M. 2-4	403 A.	Woodcliff Lake, N. J.
Warshowsky, A. L. Gym. Asst.		Gym.	139 W. 111
Watkins, Mrs. Florence V. Tr.		Sp. S.	611 W. 127
Webb, H. W. Instr.	Tu. W. Th.	614 F.	Livingston
Weeks, Florence L. Tr.		H. M. S.	421 W. 119
Weeks, Mabel F. Assoc.	Th. 11-12	136 B.	Brooks
Weeks, R. Prof.	Tu. Th. 10-11	111 B.	620 W. 122
Weick, C. W. Asst. Prof.	W. 11	327 T.	507 W. 124
Weinrich, M. F. Instr.	M. W. 11-12	305 F.	540 Manhattan ave.
Weinstein, J. W. Clin. Asst.		V. C.	71 E. 96
Weir, R. F. Emer. Prof.			30 W. 50
Weiser, Lucy H. Tr.		H. M. S.	503 W. 121
Wells, Margaret E. Tr.		Sp. S.	437 W. 124
Wendell, G. V. Prof.		511 F.	25 Claremont ave.
Wheeler, Clara M. Tr.		H. M. S.	540 W. 122
Wheeler, Elizabeth H. Re- corder Med. Fac.		P. & S.	437 W. 59
Wheeler, J. R. Prof.	Tu. Th. 10	708 P.	433 W. 117
Wheelock, Mrs. Elizabeth M. Tr.		H. M. S.	500 W. 121
Whipple, A. O. Instr.		P. & S.	981 Madison ave.
Whitaker, F. P. Asst.			151 W. 12
Whitaker, M. C. Prof.	M. W. F. 9-5	305 Hv.	454 Ft. Washington ave.
Whitbeck, B. H. Clin. Asst.		V. C.	40 E. 41
White, Bessie S. Asst.		T.	
Whitin, E. S. Asst.	Tu. 3-4	611 K.	Hartley
Whiting, J. R. Instr.		P. & S.	203 W. 56
Whitley, Mary T. Instr.		T.	405 W. 118
Whitman, R. Asst. Prof.		P. & S.	283 Lexington ave.
Whiton, L. C., Jr. Lab. Asst.	M.-F. 10-11	304 Hv.	308 W. 97
Whittemore, H. L. Instr.	M. F. 10-11; Tu. Th. 4-4:30	606 F.	
Wickwire, Ethel, Asst.		T.	
Wieser, G. F. Instr.	Tu.-S. 4-5	E.	Livingston
Wilcox, H. B. Asst.		P. & S.	159 E. 70
Wile, I. S. Clin. Asst.		V. C.	230 W. 97
Williams, F. F. Tr.		H. M. S.	Livingston
Williams, H. B. Assoc.		P. & S.	51 W. 81
Williams, H. E. Lab. Asst.		Hv.	
Williams, J. F. Instr.		T.	80 Morningside Dr.
Williams, J. P. J. Asst. Prof.	M.-S. 10:30-11	403 E.	227 Amity, Flushing, N. Y.

# DIRECTORY OF OFFICERS

NAME	OFFICE HOURS	OFFICE	RESIDENCE
Williams, L. R. Assoc.		P. & S.	882 Park ave.
Williams, P. H. Instr.		P. & S.	249 W. 72
Williams, R. H. Tr.		H. M. S.	
Williams, T. Prof. and Dir. Sch. Journalism	M. W. F. 11-12	211 L.	423 W. 117
Williams, W. R. Asst. Prof.		P. & S.	67 W. 85
Williamson, G. F. Asst.	M. W. F. 3-4; S. 11-12	406 S.	240 W. 116
Wills, A. P. Prof.	Absent on leave second half-year		
Wilson, E. B. Prof.	Tu. Th. F. 10-11; W. 9-10	608 S.	
Wilson, L. T. Asst.			
Wimmer, C. P. Asst. Prof.		Phar.	226 W. 123
Winchell, Cora M. Instr.		T.	176 Elm ave., Mt. Vernon
Winchell, Florence E. Instr.		T.	176 Elm ave., Mt. Vernon
Winslow, Mrs. Anna R. Lect.		T.	411 W. 114
Winslow, C. E. A. Lect.		T.	411 W. 114
Wittson, A. J. Clin. Asst.		V. C.	273 W. 73
Woglom, W. H. Asst. Prof.		P. & S.	
Wood, F. C. Dir. Cancer Research		P. & S.	200 W. 56
Wood, T. D. Prof. and Col- lege Physician T. C.	M.-F. 9-10; 2-3	157 T.	501 W. 120
Woodbridge, F. J. E. Prof. and Dean Grad. Fac. and Fac. Fine Arts.	M. Tu. Th. F. 10-12	305 East	Montrose, N. Y.
Woodhull, J. F. Prof.	Tu. 11	413 T.	612 Van Cortlandt Pk. ave., Yonkers
Woodruff, I. O. Instr.		P. & S.	152 W. 78
Woodworth, R. S. Prof.	Tu. F. 10	405 S.	Montrose, N. Y.
Worthington, Katherine S. Asst.		T.	
Wright, E. H. Instr.	M. W. 11-12	606 P.	Faculty Club
Wright, Mary A. Soc. Worker		Sp. S.	94 Lawrence
Wright, W. R. Asst.		203 F.	Livingston
Wyman, G. H. Tr.		H. M. S.	Hartley
Yoemans, F. C. Clin. Asst.		V. C.	230 W. 59
Yohannan, A. Lect.	W. F. 2-3	402 P.	557 W. 124
Young, C. C. Clin. Asst.		V. C.	101 W. 85
Young, C. H. Prof.	M. 11:30-12; W. 3- 3:30; M. 4-5.	512 Hm.: 708 P.	312 W. 88
Young, Helen P. Sec. to Dean of B. C.	M.-F. 10-12; 2-4	B.	430 W. 119
Yunck, Bernardine M. Asst.		T.	422 Meeker, So. Orange
Zerbe, Margaret M. Instr.		T.	Carnegie Hall

## DIRECTORY OF STUDENTS

The italic letter following the name indicates the school in which the student is primarily registered—as follows:

<i>c</i> College	<i>pl</i> School of Political Science
<i>l</i> School of Law	<i>s</i> School of Mines, Chemistry, and Engineering
<i>m</i> School of Medicine	<i>j</i> School of Journalism
<i>p</i> School of Pure Science	<i>b</i> Barnard College
<i>ph</i> School of Philosophy	<i>t</i> Teachers College
<i>fa</i> Fine Arts (Architecture, Music, and Design)	
<i>phar</i> School of Pharmacy	

The numbers 1, 2, 3, and 4 preceding these letters indicate the class. The abbreviation *gr* indicates a graduate student in the professional schools, *Sp* a special matriculated student, *nm* a non-matriculated student, *Sp nm* a special non-matriculated student.

The names of women are printed in *italics*.

"Hartley," "Livingston," "Brooks," and "Whittier" refer to the University Residence Halls.

For names of students not in Directory, see Class lists in Annual Catalogue, and for addresses consult card index in Office of Registrar.

Aaronson, I. 4 <i>c</i>	541 W. 124	Adams, D. B. 1 <i>c</i>	1 W. 72
Abney, J. H. <i>ph</i>	600 W. 122	Adams, H. C. 1 <i>l</i>	
<i>Abraham, C. R. O. ph</i>	339 W. 88	Adams, I. 4 <i>m</i>	405 W. 118
<i>Abraham, I. ph</i>	126 E. 83	<i>Adams, L. E. 3 b</i>	366 Halsey, Bklyn.
Abrahams, A. I. 4 <i>s</i>	67 E. 93	<i>Adams, M. K. 4 t</i>	254 W. 72
Abramovitz, W. H. 1 <i>l</i>	500 W. 122	<i>Addington, S. ph</i>	Whittier
<i>Abrams, E. L. 1 t</i>	501 W. 120	<i>Adikes, A. M. 1 b</i>	Brooks
<i>Abromist, M. F. 1 t</i>		<i>Adkins, W. S. p</i>	526 W. 123
	410 Westfield ave., Elizabeth	<i>Adler, A. A. p</i>	507-3, Bklyn.
Abt, F. W. 3 <i>c</i>	Hartley	<i>Adler, B. M. 3 b</i>	
Acheson, A. A. 3 <i>l</i>	Livingston		453 Fort Washington ave.
<i>Acheson, M. A. 4 t</i>	523 W. 121	<i>Adler, H. 3 m</i>	207 E. 15
Acker, G. N. 3 <i>m</i>	332 W. 58	<i>Adler, H. 3 c</i>	38 W. 89
Acker, J. G. 1 <i>j</i>		<i>Adler, M. B. fa</i>	130 E. Houston
	136 Westminster Rd., Bklyn.	<i>Adler, R. 4 t</i>	457 W. 123
Ackerman, C. W. 4 <i>j</i>	Hartley	<i>Adler, S. L. 1 j</i>	Hartley
Ackerman, E. B. <i>phar</i>		<i>Agerter, R. E. 3 t</i>	Whittier
	742 Union, Bklyn.	<i>Aghides, N. P. pl</i>	554 W. 114
Ackerman, J. S. <i>phar</i>	Ossining	<i>Agne, H. G. fa</i>	1337 Madison ave.
<i>Ackerman, M. N. 1 t</i>	152 W. 93	<i>Agnew, W. C., Jr.</i>	531 W. 113
Ackerman, R. W. 1 <i>s</i>		<i>Ahearn, T. J., Jr. 2 l</i>	1050 Clay ave.
Adam, R. M. <i>pl</i>	600 W. 122	<i>Ahearn, W. D. 2 l</i>	
Adams, A. T. <i>pl</i>			907 Lincoln pl., Bklyn.
Adams, B. P. <i>ph</i>	Livingston	<i>Albrecht, B. M. 1 b</i>	1417 Vyse ave.



- Albright, C. D. *nm l* 201 W. 79  
 Alden, I. *p*  
     24 Waldron ave., Summit  
 Alden, J. W. 2 *s* 616 W. 113  
 Alexander, A. L. *ph* 417 W. 120  
 Alexander, B. R. 1 *b* 34 W. 114  
 Alexander, C. C. *ph* 530 W. 122  
 Alexander, H. L. 3 *m*  
     801 West End ave.  
 Alexander, J. J. 3 *s* 141 E. 114  
 Alexander, T. *gr t* Harrison  
 Alfke, E. V. *gr t* 346 E. 29  
 Allan, A. C. *gr t* Whittier  
 Albee, E. H. 4 *t* Whittier  
 Allen, B. W. 4 *t* Whittier  
 Allen, C. I. 4 *m* 325 W. 58  
 Allen, E. M. 3 *t* 50 W. 2, Mt. Vernon  
 Allen E. T. 1 *s* Hartley  
 Allen, G. A. 1 *t* 130 So. Third ave.,  
     Mt. Vernon  
 Allen, G. M. *f a* Hartley  
 Allen, H. F. 2 *s* 316 W. 112  
 Allen, J. 3 *t*  
     106 Pennington ave., Passaic  
 Allen, M. 3 *b* 604 W. 115  
 Allen, M. E. 3 *t* 254 Decatur, Bklyn.  
 Allen, M. S. *ph*  
     226 Willoughby ave., Bklyn.  
 Allen, R. B. 2 *c* Manhasset, L. I.  
 Allen, R. H. *gr t*  
     14 So. Elliott Pl., Bklyn.  
 Allen, W. C. 3 *l*  
     50 W. 2, Mt. Vernon  
 Alley, R. W. 2 *l* 429 W. 117  
 Allison, A. 3 *t*  
 Allison, B. R. 2 *m* 346 W. 57  
 Allison, C. A. 3 *b* 157 W. 102  
 Allison, C. D. *pl*  
     265 Clinton ave., Bklyn.  
 Allison, J. W., Jr. 1 *c* Hartley  
 Allison, M. L. *ph* 509 W. 122  
 Allison, M. M. 2 *c* 512 W. 122  
 Alperin, D. M. *gr t* 50 E. 101  
 Alperin, J. 1 *s* 41 Diamond, Bklyn.  
 Alstet, M. A. *ph* 531-3 W. 123  
 Altenberg, L. 2 *s* 1207-47, Bklyn.  
 Altshiller, N. *p* 3210 Broadway  
 Alvino, J. F. 3 *l* 243 E. 38  
 Amant, A. A. 2 *c* 1472 Madison ave.  
 Ammarell, R. R. *pl* Livingston  
 Amory, C. Jr., 1 *l* Livingston  
 Amy, E. V. 1 *s* 48 W. 70  
 Anderson, A. R. 3 *t*  
     22 Cottage Place, White Plains  
 Anderson, F. D. *ph* Brooks  
 Anderson, J. C. *ph* 423 W. 118  
 Anderson, H. H. 1 *c* 296 E. 161  
 Anderson, H. R. *ph* 543 W. 123  
 Anderson, M. 1 *l* Livingston  
 Anderson, W. K. *pl* 600 W. 122  
 Andrews, G. R. 2 *c* Hartley  
 Andrews, J. C. 1 *c*  
     1 Summit, Flushing  
 Andrews, L. O. 4 *t* 519 W. 121  
 Andrews, R. C. *p*  
     Am. Museum of Nat. Hist.  
 Andrews, S. T. 3 *b* 45 E. 92  
 Angulo, C. 2 *l* 202 W. 107  
 Anson, F. R. 2 *b* 625-11, Bklyn.  
 Anthony, H. E. 2 *c*  
     American Museum Nat. Hist.  
 Apelian, B. K. *gr t* 600 W. 122  
 Appgar, N. J. 4 *t* Whittier  
 Appelbaum, E. 1 *c* 4 E. 117  
 Appeldoorn, M. R. *ph* Whittier  
 Appelt, R. 1 *b* 601 W. 115  
 Applebaum, S. B. 4 *s* 804 E. 178  
 Appleby, E. T. 1 *c* 216 W. 59  
 Appleby, F. S. 1 *c* 216 W. 59  
 Appley, D. M. 1 *b*  
     16 New B'way, No. Tarrytown  
 Arce, J. M. 2 *s* Hartley  
 Archer, C. A. *p* 175 E. 74  
 Archer, D. G. 1 *c* Nyack  
 Argetsinger, L. J. 4 *t* Matteawan  
 Arguillo, J. E. *phar* 408 W. 58  
 Armstrong, B. *Sp t*  
     88 Morningside Dr.  
 Armstrong, E. H. 4 *s* 618 W. 113  
 Armstrong, I. B. 4 *t* Whittier  
 Armstrong, J. A. B. 3 *c*  
     372 Manhattan ave.  
 Armstrong, J. B. 2 *c*  
     Whitestone, L. I.  
 Armstrong, J. W. 2 *s*  
     113 Second ave., College Pt., L. I.  
 Armstrong, M. W. 3 *t* 414 W. 118  
 Armstrong, N. V. 4 *b*  
     Upper Montclair  
 Armstrong, R. F. *nm j* Hartley  
 Armstrong, T. A. B. 1 *s*  
     372 Manhattan ave.  
 Arnett, M. 3 *t* Whittier  
 Arnold, E. B. 1 *l* 541 W. 124  
 Arnold, H. H. 3 *t* Whittier  
 Arnot, M. G. 1 *b* Spring Valley  
 Aronescu, I. L. 1 *s* 931 Fox  
 Aronin, I. 4 *s* 812 E. 165  
 Arrowsmith, H. *pl*  
     230-73, Bay Ridge  
 Ashbrook, K. 2 *b*  
     335 Rich ave., Mt. Vernon

*Ashcroft, C. V. R. A. gr t*  
204 W. 136  
*Ashley, P. L. pl* 537 W. 121  
*Askam, L. E. 1 b* Great Neck, N. Y.  
*Askowith, D. pl* 515 W. 122  
*Aspinwall, J. F. 1 c*  
41 Astor Pl., Jersey City  
*Astrom, W. B. 1 s*  
682 Jefferson Ave., Bklyn.  
*Astruck, E. F. 2 b* 114 W. 86  
*Atkinson, G. 3 s* 501 W. 120  
*Atkinson, W. E. 1 l*  
788 Riverside Dr.  
*Atwood, E. A. phar* 115 W. 68  
*Atwood, Jr., K. C. 1 c*  
*Auerbach, J. G. 4 b* 110 W. 77  
*Augustine, A. E. 4 s* 479 W. 152  
*Austin, H. pl* 537 W. 123  
*Avent, J. E. gr t* 505 W. 124  
*Avery, B. C. 3 t* Whittier  
*Avery, E. I. 4 t* 541 W. 123  
*Axelrod, H. 2 c* 276 Riverside Dr.  
*Axford, R. B. 3 t*  
116 Franklin ave., Ridgewood  
*Axman, L. H. 3 l* 1229 Park ave.  
*Agrault, P. D. 2 c* 420 W. 117  
*Baar, E. N. 4 c* 552a Macon, Bklyn  
*Babbitt, H. M. pl* 237 E. 104  
*Babcock, C. E. 4 t* 417 W. 120  
*Babcock, E. F. 4 t*  
Sound Beach, Conn.  
*Babcock, E. H., Jr. 1 c*  
162-85, Bklyn  
*Babcock, J. W. 4 m*  
29 Monticello ave., Jersey City  
*Bache, E. D. B. 4 t* Whittier  
*Bachrach, D. J. p* 18 E. 60  
*Badanes, R. R. 3 b* 1462 Bryant  
*Bader, E. M. gr t* Whittier  
*Baena, I. C. 2 s* 600 W. 140  
*Baer, E. 4 t* Whittier  
*Baer, S. 2 j* 605 W. 156  
*Bagg, H. J. 3 c* 539 W. 163  
*Bailey, A. M. 1 b*  
1440 Bedford ave., Bklyn.  
*Bailey, C. R. 1 l* Livingston  
*Bailly, E. D. 3 b* 452 W. 149  
*Bailey, F. 3 t* 88 Morningside Dr.  
*Bailey, O. A. gr t* 515 W. 124  
*Bain, G. B. 2 b* 537 W. 123  
*Bainton, W. L. 1 l*  
25 Morningside ave  
*Baker, C. S. 3 l* 608 W. 113  
*Baker, E. p*  
34 Neptune ave., New Rochelle  
*Baker, H. E. pl* 120 W. 121

*Baker, J. nm t*  
412 Humboldt, Union Hill, N. J.  
*Baker, S. N. ph* 421 W. 118  
*Baker, W. P. 2 m* 318 W. 57  
*Bakovitz, H. 2 c* 1008 Simpson  
*Bald, M. B. pl* 600 W. 150  
*Balderston, J. L. nm j* Hartley  
*Baldwin, B. J. pl* Livingston  
*Baldwin, D. M. gr t*  
*Baldwin, E. E. ph* Brooks  
*Baldwin, E. M. phar* 123 W. 61  
*Baldwin, J. B. nm c* 509 W. 121  
*Baldwin, J. S. 1 c* Hartley  
8 St. Nicholas Terrace  
*Baldwin, M. 3 b*  
106 Lord ave., Bayonne  
*Bales, H. O. 1 l* 525 W. 124  
*Balkam, L. A. ph* 1015 Tiffany  
*Ball, D. S. 4 c* 622 W. 113  
*Ball, D. W. 4 t*  
2 Lincoln, East Orange  
*Ball, E. L. 2 l* 536 W. 114  
*Ball, M. P. gr t* 500 W. 121  
*Ballentine, A. C. 1 s*  
152 Washington, Newark  
*Ballin, D. B. 1 c* 103 E. 110  
*Ballot, M. R. L. 4 t*  
913 President, Bklyn.  
*Ballou, M. A. 4 t* 701 W. 177  
*Ballou, W. A. 4 t*  
332 Lafayette ave., Bklyn.  
*Balmford, E. F. 4 b* 509 W. 146  
*Balmford, J. A. 2 s* 509 W. 146  
*Balsom, J. fa* 619 W. 135  
*Balz, A. G. A. ph* 430 W. 118  
*Bancroft, M. ph* Brooks  
*Bangs, F. N. 3 l* 161 W. 73  
*Bangser, W. 4 s* 140 W. 82  
*Banios, M. P. nm l* 303 W. 105  
*Banker, C. E. 3 t* 419 W. 119  
*Banker, G. D. 2 b*  
227 Van Houten ave., Passaic  
*Banks, Jr., J. L. 2 l* 19 E. 92  
*Banks, R. M. 2 s* 612 W. 116  
*Banton, T. 1 c* 617 W. 138  
*Bantrell, M. A. nm s* Livingston  
*Barasch, M. p* 701 Prospect ave.  
*Barber, M. J. 2 b*  
210 Rodney, Bklyn.  
*Barber, T. H. 3 l* 18 E. 70  
*Bard, H. O. 3 t* 619 W. 144  
*Barker, F. P. 1 l* Livingston  
*Barker, P. E. 1 c*  
36 Fairfield Rd., Yonkers  
*Barnaby, C. E. 2 t*  
257 Hamilton ave., New Brighton

- Barnaby, R. S. 2 s  
     257 Hamilton ave.,  
     New Brighton  
 Barnes, F. E. 1 c  
     Earl Hall  
 Barnes, G. O. 1 b  
     214 Orient Way, Rutherford  
 Barnes, H. H. 4 t  
     440 E. 26  
 Barnet, C. I. 2 b  
     601 W. 156  
 Barnett, C. R. 3 c  
     1029 College ave.  
 Barnett, I. W. pl  
     600 W. 122  
 Barnett, N. M. 4 t  
     Whittier  
 Barnum, R. F. 4 l  
     616 W. 113  
 Baron, J. 2 c  
     166 Harrison ave., Bklyn.  
 Baron, J. L. 2 c  
     60 Canal  
 Barone, M. A. 1 c  
     529 W. 123  
 Barr, S. 4 c  
     1444 Fifth ave.  
 Barranco, M. gr t  
     524 W. 123  
 Barrett, A. A. 3 b  
     600 W. 163  
 Barrett, B. 4 c  
     Hartley  
 Barrett, E. A. 2 t  
     548 Grand ave.  
 Barrett, M. ph  
     Brooks  
 Barrett, T. H. 3 s  
     558 W. 113  
 Barrick, J. S. 3 t  
     243a Summit ave., Jersey City  
 Barringer, A. M. 2 t  
     Whittier  
 Barry, M. 1 t  
     144 Locust, Flushing  
 Barry, W. D. 1 s  
     40 Point, Yonkers  
 Bartel, E. S. 1 t  
     76 W. 33, Bayonne  
 Barth, E. A. 3 c  
     411 W. 114  
 Bartholomew, R. P. 3 t  
     501 W. 120  
 Bartholow, B. H. 2 c  
     114 So. Eighth ave., Mt. Vernon  
 Bartholow, J. S. 1 c  
     114 So. Eighth ave., Mt. Vernon  
 Bartlett, C. A. 4 t  
     401 W. 118  
 Bartlett, J. H. 2 s  
     60 Chestnut ave.,  
     West Orange  
 Bartlett, K. H. 1 j  
     14 Highland ave., Yonkers  
 Bartlett, M. J. 2 t  
     85 St. James Pl., Bklyn.  
 Bartling, L. H. 3 b  
     90 Morningside Dr.  
 Barton, V. N. 1 s  
     Cedarhurst, L. I.  
 Bartos, E. E. fa  
     73 W. 124  
 Bartow, C. S., Jr. 1 c  
     33 W. 73  
 Basseches, J. L. 4 s  
     381 Broome  
 Bassford, C. A. 3 l  
     Livingston  
 Batchelor, O. B. 3 j  
     Hartley  
 Bateman, G. H. 3 b  
     213 W. 34  
 Bates, A. B. pl  
     631 E. 168  
 Bates, J. E. fa  
     Hartley  
 Bates, J. S. 4 s  
     Livingston  
 Batcock, G. J. 3 t  
     16 Lawrence, Yonkers  
 Battey, L. L. 2 l  
     Livingston  
 Baturin, M. 3 c  
     501 W. 121  
 Bauer, W. F. gr t  
     467 W. 143  
 Bauhan, L. H. 2 b  
     173 Hutton, Jersey City  
 Baum, M. 3 b  
     130 E. 115  
 Bauman, W. 3 t  
     Whittier  
 Baumeister, P. 3 s  
     2855 Bainbridge ave.  
 Bawden, W. T. gr t  
     523 W. 121  
 Baxter, C. W. 2 s  
     173 Columbia Heights, Bklyn.  
 Baxter, H. 1 l  
     420 W. 119  
 Baxter, J. H. 4 t  
     505 W. 122  
 Baxter, L. M. 2 c  
     34 Reynolds Terrace, Orange  
 Beach, G. B. p  
     Nor. Coll., 93 & Amster. ave.  
 Beach, J. A. 3 t  
     507 W. 121  
 Beakes, D. E. 3 t  
     345 W. 57  
 Beall, A. C. 3 b  
     Armour Villa Pk., Yonkers  
 Bear, J. R. 4 t  
     521 W. 122  
 Bear, K. L. 4 t  
     521 W. 122  
 Beard, H. I. 1 s  
     369 Waverly ave.  
 Beard, J. T., Jr. 3 s  
     633 W. 115  
 Beard, S. S. ph  
     435 Greenwood ave.,  
     Richmond Hill  
 Beatty, L. R. 1 s  
     Hartley  
 Beatty, R. L. 2 s  
     558 W. 113  
 Beck, E. F. W. 1 c  
     37 E. 31  
 Beck, E. J. pl  
     Sherman Park  
 Beck, F. 1 b  
     500 W. 122  
 Beck, Mrs. K. S. 3 t  
     430 W. 119  
 Beck, M. McL. 3 t  
     Whittier  
 Becker, E. G. 2 b  
     232 W. 137  
 Becker, M. C. 1 t  
     Park ave., Leonia  
 Beckwith, A. J. 3 c  
     91 Weirfield, Bklyn.  
 Beckwith, C. J. p  
     Brooks  
 Beckwith, E. W. 4 m  
     661 W. 180  
 Beech, M. L. 4 t  
     Whittier  
 Beekman, F. L. pl  
     141 W. 104  
 Beehler, G. R. 4 s  
     618 W. 113  
 Beeman, C. R. 4 t  
     Yonkers  
 Beemer, J. G., Jr. 4 c  
     Yonkers  
 Beer, M. A. ph  
     945 E. 163  
 Beer, T. 3 l  
     30 W. 44  
 Beers, E. E. 2 b  
     514 W. 122  
 Beggs, M. G. 3 t  
     Whittier  
 Behe, J. L. ph  
     171 W. 95  
 Behm, M. L. 1 t  
     Whittier  
 Behr, N. M. 3 l  
     Livingston  
 Beidleman, F. A. 3 c  
     585 Park Pl, Bklyn.

Beiswanger, E. N. 3 t  
800 *Riverside Dr.*  
Belcher, A. W. gr t  
788 South 12, Newark  
Belknap, A. F. 2 b 64 W. 91  
Belknap, B. H. 2 s  
Belinkoff, S. ph  
133 W. 30, Bayonne  
Belisle, F. G. i s Hartley  
Bell, A. L. L. i m 370 W. 120  
Bell, J. C. i l 30 W. 37  
Bell, Mrs. J. L., 4 t 510 W. 124  
Bell, J. L. C. 2 l 401 W. 118  
Bellinger, W. H. um c 115 W. 91  
Belmont, H. A. i t 463 W. 159  
Benedict, K. L. pl 519 W. 121  
Benedict, L. E. W. pl 417 W. 120  
Bender, M. B. 3 m  
25 Clendening ave., Jersey City  
Bender, M. S. phar 231 E. 13  
Bender, O. f a 862 Jennings  
Bender, R. C. 3 c  
342 West Jersey, Elizabeth  
Bender, S. 4 l  
590 Jefferson ave., Bklyn.  
Bender, W. F. 4 m  
925 St. Nicholas ave.  
Benikoff, A. 2 c 350 E. 15  
Bennett, C. W., Jr. i c 616 W. 179  
Bennett, E. W. 4 t 430 W. 119  
Bennett, G. L. gr t  
341 Park, Hackensack, N. J.  
Bennett, M. 3 t 1048 E. 10, Bklyn.  
Benson, A. W. 3 m 346 W. 57  
Benson, R. 2 s 255 W. 101  
Bergamini, R. gr t  
175 Claremont ave.  
Bergen, H. P. f a Livingston  
Berger, E. 2 b 90 E. 21, Bayonne  
Berghaus, E. L. i b  
318 Linden ave., Bklyn.  
Bergstresser, C. A. p  
1109 Park Pl., Bklyn.  
Berick, M. i c 82 Monroe  
Berinstein, W. i c 562 W. 113  
Berk, W. L., 4 c 425-4, Bklyn.  
Berkowitch, L. B. ph 952 Tiffany  
Berkson, I. B. gr t 46 Greenwich  
Berkwitt, S. J. i c 80 E. 115  
Berlenbach, C. F. f a  
Berliner, E. 3 l 66 W. 118  
Berliner, I. M. 3 c  
325 Central Pk., West  
Berman, F. J. p 1355 Franklin ave.  
Berman, L. 2 m 24 E. 99  
Berman, L. E. um c 139 W. 127

Bernard, J. 4 t Whittier  
Bernays, H. F. 4 b 301 W. 106  
Bernes, F. phar 159 Norfolk  
Bernheim, A. L. 3 c 74 E. 79  
Bernheim, S. A. i b 129 W. 79  
Bernkopf, A. E. ph 503 W. 121  
Bernkopf, C. S. 4 t 503 W. 121  
Bernstein, B. 3 c 3875 B'way  
Bernstein, B. 2 l 162 E. B'way  
Bernstein, D. M. i s  
8655-21, Bklyn.  
Bernstein, D. R. 2 l 63 E. 117  
Bernstein, H. i c 601 W. 162  
Bernstein, J. S. 2 b Brooks  
Bernstein, L. 2 c  
755 Gates ave., Bklyn.  
Berry, E. 4 t Whittier  
Berry, J. M. pl Whittier  
Berry, S. G. i s  
Bertran, W. 3 l Hartley  
Bestul, H. J. 4 c 1410 Vyse ave.  
Betts, M. i t Highwood  
Bevan, A. E. 4 t  
Hawthorne ave., Port Chester  
Beveridge, A. 3 t  
15 Audrey ave., Mt. Vernon  
Bevier, M. 3 b  
212 Berkeley Pl., Bklyn.  
Beyer, H. W. i s 886 Union, Bklyn.  
Beyer, L. F. 4 t 511 E. 117  
Bhadkamkar, P. P. 2 c 554 W. 114  
Bianchi, I. M. i b  
254 Park ave., Orange  
Bickel, B. E. 3 t Whittier  
Bicknell, A. 2 t Whittier  
Bidstrup, G. gr t 42 Jerome, Bklyn.  
Bidwell, A. M. 2 m  
i Madison ave., Jersey City  
Bidwell, E. F. i t Whittier  
Bieber, I. 4 t 820 E. 14, Bklyn.  
Bierhoff, A. F. i c 301 W. 109  
Bierman, W. 2 c 157 Keap, Bklyn.  
Bigelow, A. V. 3 t  
22 North, Richmond Hill  
Bieglow, O. O. phar 68 W. 68  
Biggart, H. J. i t  
50 W. Fordham Rd.  
Biggart, J. R. 3 t  
156 Wash. ave., Bloomfield  
Bijur, S. M. i c 50 W. 77  
Bilder, W. J. 2 c Hartley  
Bildersee, A. ph 257 W. 92  
Bilhuber, E. A. 4 s 627 W. 113  
Bill, P. i t Whittier  
Bill, L. S. 4 t  
Hotel St. George, Bklyn.



- Billings, G. S.* 1 t  
 151 *Columbia Hghts., Bklyn.*  
*Binder, A. A.* 2 s  
 Glenwood & Moore ave., *Leonia*  
*Binder, A. W.* f a 149 *Stanton*  
*Binderman, S. A.* 2 m  
 47 *St. Marks Pl.*  
*Binkley, L. T.* p *Whittier*  
*Birch, B. L.* gr t 413 *W. 46*  
*Bird, H. E., Jr.* 3 s 627 *W. 113*  
*Bird, J. M.* 2 c  
 306 *Fenimore, Bklyn.*  
*Birkett, H.* 1 s 540 *W. 122*  
*Birkett, L. C.* 3 t 540 *W. 122*  
*Birkholz, G. B.* 4 t *Whittier*  
*Birnbaum, A. M.* 1 l  
 998 *Bushwick ave., Bklyn.*  
*Birnbaum, B. H.* gr t  
 322 *Rivington*  
*Birnbaum, H.* 4 t 775 *Beck*  
*Birnbaum, S. p* 402 *E. 78*  
*Birr, M. B.* 3 t 500 *W. 121*  
*Bischoff, H. W.* 1 s  
 63 *New Town Rd., Astoria, L. I.*  
*Bishop, B. I.* 4 b *Brooks*  
*Bishop, C. W.* p 510 *W. 124*  
*Bishop, D. H.* ph. 414 *W. 118*  
*Bishop, H. C., Jr.* 1 m 217 *W. 133*  
*Bishop, V. G.* 2 t 217 *W. 133*  
*Bissell, A. W.* 4 s 431 *W. 117*  
*Bissell, K. H.* 3 s 46 *W. 55*  
*Bissell, R. W.* p *Laureate Hall*  
*Bitterman, A. C.* 4 c  
 104 *McLean ave., Yonkers*  
*Blaber, J. T.* 3 l 203-18, *Bklyn.*  
*Blachly, F. F.* pl *Livingston*  
*Black, D. M.* 1 c  
 713 *Oxford ave., Richmond Hill*  
*Blackmore, I. S.* nm t 523 *W. 121*  
*Blackstock, I. T.* nm t *Whittier*  
*Blaesi, J. G. F.* ph  
 223 *New Jersey ave., Bklyn.*  
*Blake, A. S.* 4 t  
 80 *St. James Pl., Bklyn.*  
*Blake, M. M.,* 3 t *Whittier*  
*Blackwell, J. M.* 3 c 608 *W. 113*  
*Blackwell, W. R. L.* f a 501 *W. 121*  
*Blanchard, D. D.* 2 s  
 1818 *Topping ave.*  
*Blanchard, H. F.* 4 s  
 1818 *Topping ave.*  
*Blanchard, J. p* *Livingston*  
*Blankenstein, M. N.* ph 419 *W. 121*  
*Blanton, W. B.* 1 m 64 *W. 68*  
*Blau, M.* 1 b 132 *W. 119*  
*Blaut, S. J.* 4 s 331 *E. 51*  
*Blauvelt, A. la T.* 4 t 541 *W. 123*  
*Blauvelt, W. H.* 1 t 458 *E. 185*  
*Bleecker, A. L.* 2 s 6 *W. 91*  
*Bleet, H. M.* 2 b 561 *W. 163*  
*Blend, A. E.* gr t *Glen Ridge*  
*Bliss, E. H.* pl 414 *W. 119*  
*Bliss, W. P.* 1 m  
 29 *Northview ave.,*  
 Upper *Montclair*  
*Bloch, J. J.* 1 s 271 *W. 113*  
*Block, M. B.* 1 s 1161 *E. 21, Bklyn.*  
*Blodgett, E.* 4 t  
 1046 *Amsterdam ave.*  
*Blondel, D. M.* 1 b  
 1 *Manhattan ave.*  
*Bloom, H. R.* 1 b  
 79 *Westminster Rd., Flatbush*  
*Blount, I. M.* 3 j 607 *W. 116*  
*Blow, A. M.* 4 s *Livingston*  
*Bluestone, E. M.* 1 m 215 *E. B'way.*  
*Bluestone, I. H.* phar  
 1361 *Fifth ave.*  
*Blumenthal, A. S.* 4 s  
*Blumenthal, H. B.* 1 b  
 333 *Central Pk., W.*  
*Blythe, W. H.* 1 l  
 1161 *Amsterdam ave.*  
*Boardman, A. I.* 2 t 515 *W. 122*  
*Boas, B.* 2 t 88 *Morningside Dr.*  
*Boas, E. P.* 3 m  
 230 *Franklin ave., Grantwood*  
*Boatwright, M. B.* pl 607 *W. 116*  
*Bobbé, S. S.* 4 c 1919 *Seventh ave.*  
*Bock, F. C.* nm t 64 *E. 34*  
*Bodziner, J.* 2 s 625 *E. 5*  
*Boegehold, W. D.* 3 b  
 120 *N. Sixth ave., Mt. Vernon*  
*Boehmke, M. J. W.* gr t *Livingston*  
*Boggs, N. T.* ph 175 *Ninth ave.*  
*Boghossian, S. G.* gr t 600 *W. 122*  
*Bohlin, H. G.* 2 s  
 Paulison *ave., Ridgefield Pk.*  
*Böhm, E. M.* 1 c 1199 *Boston*  
*Boles, C. E.* 1 l 131 *Riverside Dr.*  
*Bolger, J. V.* 2 b 1891 *Madison ave.*  
*Boll, A.* ph 315 *Fenimore, Bklyn.*  
*Boller, E. H.* 1 t 417 *W. 121*  
*Boller, P. F.* ph 417 *W. 121*  
*Bonvicino, L. A.* 1 m  
 7309 *Third ave., Bklyn.*  
*Bonart, C. I.* 1 s 440 *Riverside Dr.*  
*Bond, S. O.* gr t 510 *W. 124*  
*Bonfeld, M. L.* 1 m 401 *8th, Bklyn.*  
*Bonfoey, E. C.* ph *Far Rockaway*  
*Bonner, G. E.* 3 t 200 *W. 94*  
*Bonney, L. E.* 4 t *Whittier*



Bonnlander, V. C. 2 m  
 396 Ralph, Bklyn.  
 Bonrau, J. S. p 1113 Lexington ave.  
 Bonsib, R. M. 4 s 616 W. 113  
 Bonsib, R. S. 4 s 616 W. 113  
 Bonvincino, S. A. m  
 7309 Third ave., Bklyn.  
 Boon, H. O. p  
 764 De Kalb ave., Bklyn.  
 Booth, A. D. 1 t 104 W. 85  
 Booth, F. 3 c 449 W. 123  
 Boothby, A. Z. 4 t 19 W. 102  
 Borden, M. A. 1 b Grantwood  
 Born, S. p 320 W. 139  
 Borsuk, R. 2 s 2387 Marion ave.  
 Boshart, E. W. gr t  
 60 So. Third ave., Mt. Vernon  
 Bostanian, K. M. 1 m 232 E. 64  
 Bosworth, M. B. 4 t 420 W. 119  
 Botsford, J. B. 3 c 550 W. 114  
 Botté, J. R. 3 t 16 W. 36, Bayonne  
 Botté, R. A. 4 t 16a W. 36, Bayonne  
 Boudrean, C. E. 4 m  
 Willard Parker Hospital  
 Bourne, M. J. pl 418 W. 118  
 Bourne, R. S. pl Hartley  
 Bouton, M. I. 3 t  
 88 Morningside Dr.  
 Bowden, M. A. 3 t  
 88 Morningside Dr.  
 Bowden, R. H. fa 370 W. 120  
 Bower, S. E. 4 t 513 W. 142  
 Bowes, R. E. fa 620 W. 115  
 Bowers, S. W. 2 s  
 434 Riverside Dr.  
 Bown, A. O., Jr. pl 27 W. 44  
 Bowles, F. C. p 421 W. 121  
 Bowman, J. H. 1 s  
 227 Ovington ave., Bklyn.  
 Boyce, W. S. 1 m Livingston  
 Boyce, Z. M. 3 t  
 101 Mamaroneck ave.,  
 White Plains  
 Boyd, B. 1 t  
 229 Nelson ave., Peekskill  
 Boyd, B. B. fa 531 W. 113  
 Boyd, J. S. 3 t 501 W. 120  
 Boylan, M. M. 3 t 420 W. 118  
 Boyle, C. A. 3 s 534 Trinity ave.  
 Boyle, H. L. nm t 524 W. 123  
 Boylston, E. J., Jr. 3 s 321 E. 169  
 Brackett, R. G. fa  
 Braddock, W. H. 3 m 346 W. 55  
 Bradley, M. M. 3 t Whittier  
 Brady, Mrs. E. 3 t 530 W. 122

Brady, F. L. 1 c 160 Claremont ave.  
 Brady, K. R. gr t  
 72 Van Siclen ave., Bklyn.  
 Brady, L. 3 c  
 94 Seventh ave., Bklyn.  
 Brady, L. A. 1 t 417 W. 144  
 Brainard, A. H. gr t  
 34 New Lawn ave., Arlington  
 Brainard, P. P. gr t Hartley  
 Brainerd, F. J. 3 t  
 43 N. Fullerton ave., Montclair  
 Brainerd, H. B. fa 135 E. 30  
 Brainerd, H. R. 2 c 135 E. 30  
 Brainin, H. 1 s  
 20 Clinton Pl., New Rochelle  
 Braislin, W. D. 2 c  
 556 Washington ave., Bklyn.  
 Bramwell, W. M. fa 57 E. 91  
 Brand, C. S. pl 514 W. 122  
 Brandenburg, H. 2 s  
 1951 So. Boulevard  
 Brandt, R. C. 3 l 531 W. 113  
 Brancati, C. 4 m 2262 First ave.  
 Brant, L. C. p 401 W. 118  
 Brashears, J. A. 4 j Hollis, L. I.  
 Brasted, H. S. 3 m 27 W. 84  
 Braun, L. 1 s 854 Union ave.  
 Braunfield, S. 1 c 772 Third ave.  
 Braus, L. 4 c 468 Riverside Dr.  
 Braus, R. N. 2 t 468 Riverside Dr.  
 Braverman, B. 2 c 19 Eldridge  
 Braverman, L. 3 s 19 Eldridge  
 Bray, C. B. 4 t Whittier  
 Bream, E. S. p  
 1164 E. Jersey, Elizabeth  
 Breisch, L. I. 3 t Bound Brook  
 Brenneman, L. L. gr t  
 Hicksville, L. I.  
 Brennan, E. M. 3 t Whittier  
 Brennecke, H. C. 3 c 168 W. 100  
 Breeman, R. R. 1 t  
 59 Landscape ave., Yonkers  
 Brenner, A. B. 2 l  
 252 Carroll, Bklyn.  
 Brent, H. M. gr t 411 W. 115  
 Bresel, J. K. p 220 E. 12  
 Brett, A. M. 2 b 611 W. 127  
 Brew, M. F. 3 b 28 Clarkson, Bklyn.  
 Brewer, A. S. nm t 415 W. 118  
 Brewer, Mrs. M. D. pl  
 400 Riverside Dr.  
 Brewer, R. E. 1 b 151 W. 142  
 Brewer, T. M. ph 600 W. 122  
 Brewster, A. D. ph 618 W. 114  
 Brewster, J. A. pl 419 W. 119  
 Brewton, M. M. 4 t 423 W. 118

Bricker, H. C. 1 c  
100 Ellery, Bklyn.  
Brickner, B. 4 t 909 Freeman  
Bridge, E. R. 4 m 801 Madison ave.  
Bridge, H. L. 4 t  
The Vanderbilt, W. 114  
Bridge, S. H. 3 t  
212 N. Hillside ave., Glenridge  
Bridges, C. B. p 526 W. 123  
Bridges, M. A. C. 1 c 148 W. 74  
Brieant, C. L. 1 c 633 W. 115  
Briggs, A. B. 3 t  
46 Park Pl., East Orange  
Briggs, T. H. gr t 533 W. 124  
Brightfield, L. O. nm l Hartley  
Brill, I. C. 3 m 744 Beck  
Brinkerhoff, H. T. 2 c  
110 Monroe, Bklyn.  
Brister, C. M., Jr. 3 s 500 W. 122  
Bristol, W. E. pl 600 W. 122  
Brittain, M. 3 b  
15 Livingston ave., Yonkers  
Brittain, V. I. 3 b  
15 Livingston ave., Yonkers  
Brizzolara, R. 1 s 331 E. 86  
Brock, A. J. 4 c 207 E. 71  
Brock, R. E. nm l 616 W. 113  
Broderick, E. V. 1 l  
31 Vineyard ave., Yonkers  
Brodsky, H. 3 l Bayonne  
Brokaw, E. 4 t 97 Dukes, Kearney  
Brokaw, R. V. 2 m 40 W. 66  
Brombasher, M. H. C. 4 s  
94 W. 183  
Bronner, A. F. gr t 512 W. 122  
Brookover, D. H. ph 412 W. 115  
Brooks, G. B. 2 l  
4 Thomas Pl., New Rochelle  
Brooks, L. M. 3 t  
1985 Prospect ave.  
Brooks, R. 3 t 463 W. 159  
Brooks, R. P. gr t  
50 Lincoln ave., Ridgewood  
Brooks, R. W. 3 b Harrison  
Brophy, F. P. 3 s 565 W. 113  
Brophy, W. E. 2 s 565 W. 113  
Brothers, J. H., Jr. 3 m  
136 York ave., New Brighton  
Brotherton, H. J. ph  
241 Union ave., Peekskill  
Broughton, H. E. 2 s 431 W. 117  
Broun, C. G. gr t  
12 Grove, Englewood  
Broun, K. 4 t 340 W. 85  
Brower, H. R. ph Livingston  
Brown, A. G. 4 b Brooks

Brown, B. H. fa 112 Riverside Dr.  
Brown, C. J. 2 c 550 W. 114  
Brown, E. G. 1 t  
38 N. Willow, Montclair  
Brown, E. L. 4 t  
69 Decatur, Bklyn.  
Brown, E. L. 2 t 200 W. 111  
Brown, F. J. 4 c 200 W. 111  
Brown, G. pl  
122 Kingston ave., Bklyn.  
Brown, G. D. 3 b 556 W. 140  
Brown, G. E. pl 1204 B'way  
Brown, H. A. gr t 3115 B'way  
Brown, H. E. pl  
Atlantic Highlands  
Brown, H. G. ph 600 W. 122  
Brown, H. H. 2 l 2087 Fifth ave.  
Brown, H. S. 3 l Hartley  
Brown, J. C. gr t 527 W. 124  
Brown, J. E. 2 c 614 W. 148  
Brown, K. G. 2 b  
743 Crotona Pk., North  
Brown, K. P. 4 t 340 W. 85  
Brown, L. L. 3 t  
1046 Amsterdam ave.  
Brown, L. N. phar 161 W. 64  
Brown, M. F. ph 419 W. 118  
Brown, O. 3 t 559 W. 156  
Brown, R. A. M. 3 t 420 W. 121  
Brown, R. M. 4 t 465 First, Bklyn.  
Brown, S. I. 1 t 500 W. 122  
Brown, W. E. 1 l Hartley  
Browning, C. P. 4 s 616 W. 113  
Brownlee, M. L. nm t  
926 Putnam ave., Plainfield  
Brett, G. M. p Hartley  
Bruback, T. M. 1 l Livingston  
Bruce, E. L. p 288 St. Nicholas ave.  
Bruner, A. B. 1 m 346 W. 57  
Brunner, B. M. 3 t Whittier  
Bruno, A. 4 m 600 W. 179  
Bruno, J. ph 26 Olive, Bklyn.  
Brunton, J. S. L. p  
288 St. Nicholas ave.  
Bryan, E. H. 4 t Cresskill  
Bryan, F. A. 3 t Whittier  
Bucci, N. 1 c 512 E. 163  
Buchanan, M. C. 4 t  
88 Morningside Dr.  
Buchtenkerch, G. C. 4 c 228 E. 31  
Buck, L. 4 t 500 W. 122  
Buck, O. B. 3 t  
352 Park, Hackensack  
Buckley, A. E. B. 1 t Whittier  
Budington, E. G. pl 32 Nassau  
Budner, H. S. 2 l 8 E. 118

Buermeyer, M. D. 4 t  
193 St. John's Pl.  
Buffington, E. gr t 340 W. 85  
Bull, D. C. 1 m 348 W. 57  
Bullock, W. W. gr t  
Hastings-on-Hudson  
Bulow, S. I. 2 b 2444 Lorillard Pl.  
Bultman, C. G. 4 t Whittier  
Bumbaugh, E. 3 t Whittier  
Buncke, H. J. 2 s Whitestone, L. I.  
Bungard, M. Z. nm l 505 E. 135  
Bunzel, B. ph  
300 Central Pk. West  
Bunzl, J. V. 1 l 121 E. 72  
Bunzl, L. C. 3 b 121 E. 72  
Bunzl, M. E. 4 b 175 W. 72  
Bunzl, W. J. 1 s 175 W. 72  
Buonocore, B. B. 1 b Brooks  
Burchan, L. M. 1 t  
2137 Newbold ave.  
Burd, C. G. ph 401 W. 118  
Burdett, M. 1 t  
173 Park ave., E. Orange  
Burgess, E. L. 3 b 557 W. 124  
Burgevin, C. L. 3 b Portchester  
Burghard, E. G. 2 c 1 E. 93  
Burghard, G. E. 1 c 1 E. 93  
Burgi, H. 4 s 903 E. 139  
Burgin, H. T. 1 t 1318 55th, Bklyn.  
Burgin, M. W. 4 t 549 Riverside  
Burke, A. 4 t 509 W. 122  
Burke, A. F. 4 t Whittier  
Burkhard, R. V. 4 c 429 W. 117  
Burkhard, W. E. 4 s  
132 Stevens ave., J. C.  
Burkhart, S. 4 t Whittier  
Burling, E. M. gr t  
333 Springfield ave., Summit  
Burlingame, A. E. pl 417 W. 120  
Burlingham, R. 3 m 332 W. 58  
Burne, E. p Douglaston, L. I.  
Burnett, M. H. pl  
393a McDonough, Bklyn.  
Burnham, R. W. gr t  
1801 Dorchester Rd., Bklyn.  
Burtenshaw, I. M. 3 t  
180 Clinton, Bklyn.  
Burton, L. W. M. 4 l 535 W. 112  
Burr, H. C. pl 600 W. 122  
Burroughs, A. H., Jr. 4 s  
616 W. 113  
Bursch, J. E. pl 2074 Daly ave.  
Burstein, A. 4 c 441 W. 124  
Busch, H. 1 m  
21 Tichenor, Newark  
Buschmann, A. D. 4 t Whittier

Bush, A. M. nm c  
1700 Pitkin ave., Bklyn.  
Bush, C. M. ph 504 W. 112  
Bussey, G. C. ph  
112 Claremont ave., Mt. Vernon  
Buswell, A. M. p 515 W. 122  
Butler, H. F. 1 s  
116 North ave., New Rochelle  
Butler, C. A. 3 c 351 W. 114  
Butler, C. T. 1 m  
Butler, G. P., Jr. 2 c 608 W. 113  
Butler, L. C. 3 l 30 E. 72  
Butler, S. S. 2 b  
60 Morningside Dr.  
Butler, W. ph 3 Henry  
Buttenwieser, C. 4 b  
300 Central Pk., W.  
Butterworth, G. F., Jr. 4 c  
627 W. 115  
Butson, M. T. ph 430 W. 119  
Byrne, S. L. 3 t  
8 James, Montclair  
Byrnes, J. H. 3 c  
50 N. 19, Flushing  
Byrnes, M. D. 2 t  
50 No. 19, Flushing  
Byron, O. 3 s Livingston  
Cabrera, R. J. phar 404 W. 58  
Cady, L. B. 3 m 315 W. 89  
Cagliostro, C. L. 4 b  
1856 Bath ave., Bklyn.  
Cagwin, S. M. 3 t 99 Claremont ave.  
Cahn, P. p 202 Riverside Dr.  
Calahan, H. A. 2 l  
215 Cumberland, Bklyn.  
Caldwell, G. A. 3 m 332 W. 58  
Caldwell, G. D. 4 c 633 W. 115  
Caldwell, L. W. 1 t 401 W. 118  
Calhoun, E. C. 3 l Hartley  
Calhoun, H. G. 4 l  
1161 Amsterdam ave.  
Calhoun, R. E. 2 l Hartley  
Calkins, C. ph Whittier  
Callan, M. E. 4 b 870 E. 175  
Calvelli, A. F. phar 305 E. 112  
Calvert, R. P. p 418 W. 118  
Cameron, W. S. p 239 W. 136  
Campbell, A. L. 1 s  
52 Storm, Tarrytown  
Campbell, B. E. 3 t 604 W. 125  
Campbell, D. 2 c 319 Eighth, Bklyn.  
Campbell, D. G. 3 s 510 W. 124  
Campbell, G. E. 3 t 423 W. 118  
Campbell, H. Z. 4 t 604 W. 125  
Campbell, I. C. 3 t Whittier

- Campbell, Mrs. J. A. L. ph*  
 520 W. 114  
*Campbell, M. V. nm t*  
*Campbell, V. A. 4 t*  
 101 Clinton ave., Bklyn.  
*Campbell, V. H. 4 t*  
*Lowerre Summit, Yonkers*  
*Campbell, W. M. 4 c* 543 W. 141  
*Campiglia, S. 3 t* Whittier  
*Campion, G. N. 3 b* 261 W. 23  
*Canavan, P. F. 1 s*  
 333 Riverside Dr.  
*Canfield, L. H. pl* 876 W. 180  
*Cannella, G. phar* 415 E. 12  
*Cannon, T. L. 2 c*  
 323 West End ave.  
*Caplow, S. N. 2 l* 67 E. 97  
*Capptan, L. L. phar* 964 Kelly  
*Capps, J. E. gr t* 417 W. 118  
*Capwell, D. E. 1 t* Whittier  
*Carey, C. L. Sp nm b*  
*Luddington Rd., West Orange*  
*Carey, T. F. 2 s* 627 W. 113  
*Carley, L. A. ph* 257 B'way  
*Carlin, J. F. 3 l*  
 270 Washington ave., Bklyn.  
*Carling, E. 3 t* St. Luke's Hospital  
*Carlisle, J. H. 4 m* 231 W. 69  
*Carman, M. I. 3 b*  
 283 Madison ave., Flushing  
*Carmel, W. J. 4 s*  
 611 Willoughby ave., Bklyn.  
*Carnall, B. E. ph* 514 W. 122  
*Carnall, W. T. 1 m* 346 W. 57  
*Carnelli, C. M. 2 s* 26 E. 109  
*Carney, J. J. ph* Riverdale School  
*Carothers, F. E. 2 b* 1154-49, Bklyn.  
*Carp, L. 2 m* 83 Willett  
*Carpenter, H. A. p* 438 W. 116  
*Carpenter, L. E. 3 t*  
 103 Morningside ave.  
*Carpenter, M. S. 1 b* 202 W. 74  
*Carpenter, W. M. 3 t* 405 W. 118  
*Carr, A. L. 3 t* 523 W. 121  
*Carr, C. E. 4 m* 333 W. 58  
*Carr, E. Q. 3 l* 831 Carroll, Bklyn.  
*Carr, F. C. 4 m* 333 W. 58  
*Carr, K. L. 1 t* Whittier  
*Carr, M. 2 b* 831 Carroll, Bklyn.  
*Carr, N. C. gr t* Livingston  
*Carris, L. H. gr t* Newark  
*Carroll, C. A. ph* The Victoria,  
 Riverside Dr. & 97  
*Carroll, J. E. 3 b*  
 80 Morningside Dr.
- Carroll, J. J. 2 s*  
 46 First ave., North Pelham  
*Carroll, J. W. 2 l* 619 W. 113  
*Carse, E. ph* 129 E. 30  
*Carter, C. E. ph* 1 Madison ave.  
*Carter, I. C. gr t* 706 W. 180  
*Carter, O. I. gr t* Whittier  
*Carter, P. p* 503 W. 121  
*Caruso, C. W. 3 l*  
 11 Garside, Newark  
*Caruthers, A. W. 4 s* Hartley  
*Carver, G. L. p* 526 W. 123  
*Cawl, F. R. 1 m*  
 1378 President, Bklyn.  
*Casale, J. B. 4 m*  
 98 Bloomfield ave., Newark  
*Casamajor, M. pl*  
 372 Greene ave., Bklyn.  
*Case, B. C. p* 600 W. 122  
*Cashman, J. F. ph*  
 725 Kenmore Pl., Bklyn.  
*Cassidy, J. C. 4 s* 604 W. 114  
*Cassidy, P. V. 2 c* 503 W. 160  
*Castle, Mrs. C. S. ph* 423 W. 118  
*Castleberry, A. 3 t* 514 W. 122  
*Castritsy, G. P. ph* 230 W. 95  
*Cattell, P. Sp nm b* Brooks  
*Catzen, B. H. 2 c* 414 W. 118  
*Caulle, L. A. pl* 53 Irving Pl.  
*Caulfield, G. R. 2 b* 434 E. 57  
*Cawl, F. R. 3 c*  
 1378 President, Bklyn.  
*Celano, L. 4 m* 515½ E. 118  
*Center, S. S. gr t* Whittier  
*Ceraso, J. ph* 139-4, Union Hill  
*Cerow, G. A. p* 503 W. 175  
*Chabaud, M. 1 b*  
 183 Young, L. I. City  
*Chace, E. P. 3 t* 416 W. 122  
*Chadwick, H. K. 2 c* Madison  
*Chaffee, C. E. 4 t*  
 Lowerre Summit, Yonkers  
*Chalmers, U. M. 3 t* Whittier  
*Chamberlin, N. L. 4 t* Sparkill  
*Champaign, N. 3 t* 501 W. 121  
*Champlin, R. M. 1 t* Whittier  
*Chan, C. Y. 1 s* Hartley  
*Chan, Y. Y. pl* Livingston  
*Chancellor, M. L. 1 b* Brooks  
*Chandler, C. P. 4 m* Livingston  
*Chandless, M. E. 3 t* 215 W. 106  
*Chapel, I. H. 4 t* Whittier  
*Chaplin, H. 4 m* 231 W. 69  
*Chapman, I. gr t*  
*Chapman, I. gr t*  
 So. Norwalk, Conn.



Chapman, P. A. *ph* Livingston  
 Chapman, W. H. *1 m* 333 W. 58  
 Chase, C. H. *3 c* Hartley  
 Chase, C. L. *pl* 547-4, Bklyn.  
 Chazal, P. M. *pl* Hartley  
 Cheatham, J. L. *4 s* 522 W. 112  
 Cheifetz, S. T. *1 t* 826 Kelly  
 Chen, C. H. *1 c* Hartley  
 Chen, S. K. *pl* 512 Hartley  
 Chen, Y. *3 t* Livingston  
 Cheney, G. A. *3 c* 633 W. 115  
 Cherry, E. N. *3 b* 1217 Ditmas ave., Bklyn.  
 Cherry, W. M. *4 l* Livingston  
 Chiang, M. *1 t* Hartley  
 Chien, H. T. *gr t* 420 W. 121  
 Child, K. D. *3 b* 611 W. 156  
 Child, M. B. *1 t* Ridgefield Pk.  
 Childs, S. H. *4 s* 362 Riverside Dr.  
 Chilton, O. *4 t* Whittier  
 Ching, T. Y. *gr t* 1284 Amster. ave.  
 Chipkin, I. S. *4 t* 88-92 E. 111  
 Choate, M. F. *pl* 405 W. 118  
 Chow, C. *p* 416 W. 118  
 Chow, K. C. *4 s* Hartley  
 Christiansen, A. O. *1 t* 121 Sip ave., Jersey City  
 Christianson, A. O. *ph* 511 W. 113  
 Christie, R. *2 c* Hackensack  
 Chu, C. H. *pl* Livingston  
 Chubb, H. B. *pl* 509 W. 122  
 Chui, L. *2 c* Livingston  
 Chun, Y. S. *3 s* Hartley  
 Chung, M. Y. *p* Hartley  
 Church, H. H. *nm t* 438 W. 116  
 Church, J. R. *4 c* 614 W. 113  
 Church, R. C. *3 t* Whittier  
 Claghorn, D. M. *2 s* 434 Riverside Dr.  
 Claghorn, J. I. *4 s* 434 Riverside Dr.  
 Clapp, E. R. *ph* 142 E. 18  
 Clariher, M. *1 b* Woodcliffe-on-Hudson  
 Clark, A. E. *3 t* Whittier  
 Clark, B., Jr. *1 l* 60 First Pl., Bklyn.  
 Clark, D. L. *ph* Livingston  
 Clark, E. B. *1 c* 187 Keap, Bklyn.  
 Clark, F. J. *1 l* 445-14, Bklyn.  
 Clark, G. *3 t* 1253 Amsterdam ave.  
 Clark, H. C. *Sp nm b* 465 West End ave.  
 Clark, J. B. *3 t* 437 W. 124  
 Clark, K. F. *2 l* 405 Madison, Bklyn.  
 Clark, M. F. *Sp nm b* Brooks  
 Clark, M. H. *4 t* Westfield  
 Clark, M. H. *4 m* 359 W. 57

Clark, M. S. *3 b* 17 Landscape ave., Yonkers  
 Clark, R. A. *1 l* 618 W. 135  
 Clark, T. E. *1 j* 500 W. 122  
 Clark, W. D. *2 c* 633 W. 115  
 Clark, W. E. *2 l* 511 W. 113  
 Clark, W. E. *3 t* 538 Maple, Richmond Hill  
 Clark, W. R. *1 c* Livingston  
 Clarke, C. S. *3 t* Whittier  
 Clarke, E. L. *pl* 501 W. 123  
 Clarke, H. E. *gr t* 600 W. 122  
 Clarke, P. H. *2 m* 236 W. 76  
 Clarke, R. *4 t* Mahopac  
 Clarke, R. P. *1 l* 1 W. 81  
 Class, J. L. *3 c* 400 W. 261  
 Clauss-Kirsten, M. *ph* 1936 Benedict ave.  
 Clayton, M. M. *1 t* Whittier  
 Cleary, C. N. *3 s* 550 W. 114  
 Cleaver, W. G. *gr t* Elkins Park, Pa.  
 Clemens, M. A. *4 t* 5 W. 125  
 Clements, H. *ph* 136 W. 44  
 Cleveland, M. *2 m* 30 W. 44  
 Clinch, M. L. *3 b* 161 E. Sidney ave., Mt Vernon  
 Clinch, W. W. *2 l* 619 W. 113  
 Clingen, A. V. *D. 3 b* 39 Claremont ave.  
 Clinton, L. W. *3 t* 500 W. 114  
 Cloud, C. B. *3 s* 519 W. 121  
 Clough, A. N. *f a* Hotel Bonta  
 Cloyd, G. *ph* 99 Claremont ave.  
 Clyne, H. H. *2 l* Hartley  
 Coad, R. G. *3 l* 565 W. 113  
 Coates, A. A. *4 c* 540 W. 113  
 Coates, A. P. *2 l* 264 Mountain ave., Upper Montclair  
 Cobb, F. C. *3 s*  
 Cobb, P. B. *ph* 600 W. 122  
 Cobb, W. V. *pl* 519 IV. 121  
 Cobden, P. E. *2 s* 434 Riverside Dr.  
 Cochen, F. A. *ph* 514 Wythe ave., Bklyn.  
 Cochran, G. G. *1 c* 8608 Twenty-first ave., Bklyn.  
 Cody, L. *4 t* 420 W. 118  
 Coe, M. S. *4 t* 42 W. 52  
 Coen, V. S. *1 t* 620 W. 116  
 Coffee, S. C. *4 t* 471 Lenox ave.  
 Coffin, G. *2 b* 156 W. 58  
 Coffin, L. A., Jr. *f a* 156 W. 58  
 Cogan, L. G. *2 b* 203 W. 120  
 Cogan, W. J. *1 l* Bayonne  
 Cogswell, G. R. *phar* 146 W. 68



- Cohee, O. J. *pl* 162 E. 7  
 Cohen, B. *gr. t* 5205 Third ave., Bklyn.  
 Cohen, D. B. *4 t* 296 So. 2, Bklyn.  
 Cohen, D. M. *1 m* 3 E. 117  
 Cohen, E. F. *4 s* 253 W. 112  
 Cohen, H. *2 s* Bath Beach, Bklyn.  
 Cohen, H. M. *ph* 531 W. 123  
 Cohen, I. F. *3 s* 174 Broome  
 Cohen, J. L. *nm c* 69 Market  
 Cohen, M. J. *3 s* 132 W. 113  
 Cohen, R. *1 b* 1516 Charlotte St.  
 Cohen, R. S. *nm l* 672 St. Nicholas ave.  
 Cohen, S. C. *3 c* 50 St. Mark's Pl.  
 Cohen, S. M. *1 b* 80 Morningside Dr.  
 Cohen, S. M. *3 l* 507 W. 112  
 Cohen, T. *p* 188 Crystal, Bklyn.  
 Cohn, C. I. *4 c* 790 Riverside Dr.  
 Cohn, C. I. *3 b* 296 Main, Orange  
 Cohn, C. E. *1 c* 80 Throop ave., Bklyn.  
 Cohn, L. B. *ph* 736 Home  
 Cohn, M. *1 c* 272 W. 90  
 Cohn, P. *3 t* 89 Ave. B.  
 Colby, E. *ph* 633 W. 115  
 Colcord, A. H. *2 l* 551-2, Bklyn.  
 Cold, B. *4 t* Whittier  
 Colding, E. D. *1 t* 251 W. 92  
 Cole, C. A. *4 c* 540 W. 113  
 Colé, E. M. *phar* 146 W. 68  
 Cole, H. D. *4 t* 140 W. 96  
 Cole, J. N., Jr. *4 j* Hartley  
 Cole, M. *4 t* Whittier  
 Coleman, C. L. *3 t* 118 Archer ave., Mt. Vernon  
 Coleman, J. B. *p* Livingston  
 Coleman, K. R. *gr t* 859 Lexington ave.  
 Colfax, W. A. *phar*  
 Colla, C. *1 t* 3603 B'way  
 Colletti, J. *1 c* 120 Elizabeth  
 Collica, J. D. *4 m* 172 W. Houston  
 Collier, P. S. *pl* 119 W. 111  
 Collingwood, E. *4 t* 500 W. 121  
 Collins, H. G. *1 m* 318 W. 57  
 Collins, J. H. *3 t* 417 W. 120  
 Collins, M. M. *1 t* 22 St. Nicholas Pl.  
 Collins, R. N. *1 t* 122 W. 81  
 Colp, R. *4 c* 5 Charlton  
 Colquhoun, W. W. *3 s* 614 W. 113  
 Colton, W. A. *4 m* 33 W. 126  
 Colver, F. B. *3 l* 627 W. 115  
 Colvin, W. P. *2 m* 503 W. 174  
 Combes, A. L. *nm t* Livingston  
 Come, M. I. *1 s* 215 W. 105  
 Comes, L. *4 t* 345 Pk., Hackensack  
 Comfort, M. M. *gr t* 417 W. 118  
 Compton, G. B. *3 l* 420 W. 119  
 Comstock, A. P. *pl* 26 Jones  
 Comstock, G. E. *pl* 509 W. 122  
 Conan, N. J. *1 m* 69 Lewis ave., Bklyn.  
 Condon, J. C. *4 t* 440 Riverside Dr.  
 Condon, K. F. *4 t* 440 Riverside Dr.  
 Conger, F. *nm l* 82 W. 12  
 Conkey, M. V. *ph* 391 West End ave.  
 Conklin, A. M. *1 b* 96-15, Bklyn.  
 Conklin, B. F. *3 t* Arlington  
 Conklin, C. S. *2 m* 39 W. 61  
 Conklin, J. C. *ph* Brooks  
 Conklin, W. D. *4 j* 435 W. 119  
 Connell, J. H. *nm s* 611 W. 156  
 Connelly, A. M. *p* 500 W. 121  
 Conner, B. F., Jr. *4 s* 106 Barbey, Bklyn.  
 Connick, L. *1 l* 328 W. 72  
 Connolly, M. E. *1 b* 540 W. 157  
 Conover, E. *1 b* 617 W. 113  
 Conroy, J. G. *3 l* 277 Stratford Rd.  
 Constant, S. V. *1 s* Hillside Dr., Yonkers  
 Contreras, C. C. *2 s* 608 W. 113  
 Conway, W. F. *nm t* Edgewater  
 Cook, F. H. *4 t* 1341-55, Bklyn.  
 Cook, H. P. *4 s* 44 Morningside Dr.  
 Cook, K. F. *nm t* Whittier  
 Cook, T. M. *4 t* Whittier  
 Cooke, M. M. *4 t* Whittier  
 Cooke, T. T. *1 s* 16 Lawn Ridge Rd., Orange  
 Cooney, E. W. *1 l* 110 W. 183  
 Coope, G. F. *2 s* 431 W. 117  
 Cooper, A. P. *ph* 547 W. 123  
 Cooper, F. B. *p* Livingston  
 Cooper, F. G. *pl* 600 W. 122  
 Cooper, I. J. *3 t* 80 Addison ave., Rutherford  
 Cooper, I. R. *3 t* 160 Water, Perth Amboy  
 Cooper, L. F. *1 t* 253-74, Bklyn.  
 Cooper, L. M. *2 c* 253-74, Bklyn.  
 Cooper, M., Jr. *4 c* 987 Madison ave.  
 Copeland, H. F. *phar* 501 W. 121  
 Copeland, L. S. *gr t* 401 W. 118  
 Coppock, H. J. *pl* 524 W. 123  
 Corbett, A. F. *2 s* 1120 Amsterdam ave.

Corbett, W. H. *i c* 915 Forest ave.  
 Corbin, J. E. *3 t* New Rochelle  
 Corcoran, M. *3 t*  
 115 Washington ave., Newark  
 Cordner, G. F. *f a* 370 W. 120,  
 Cornelissen, J. *3 s* Hartley  
 Cornelius, C. L. S. *3 l* Livingston  
 Cornell, J. F. *2 j* 459 E. 134  
 Cornish, H. R. *gr t*  
 815 E. 23, Paterson  
 Cornwall, C. *i c* 540 W. 113  
 Correll, E. H. *4 t* 437 W. 124  
 Corry, R. T. *4 m* 3703 Willett ave.  
 Cortada, S. E. *1 t* 612 W. 137  
 Corwin, F. M. *4 t* Whittier  
 Corwin, H. E. *2 l* Hartley  
 Coryell, N. G. *3 b* 1414 Vyse ave.  
 Coss, J. J. *ph* Livingston  
 Coss, M. M. *3 t* Whittier  
 Cottrell, O. P. *phar*  
 Coulter, C. B. *4 m* 417 W. 120  
 Coulter, J. H. *ph* Greenwich, Ct.  
 Courtney, A. W. *ph* 292 W. 4  
 Couse, H. *gr t* Essex Fells  
 Cousins, R. B., Jr. *3 l* 531 W. 113  
 Cousley, Mrs. E. T. *4 t* 509 W. 121  
 Cover, J. H. *2 c* 420 W. 121  
 Covey, G. W. *3 m* 575 W. 183  
 Covey, P. B. *4 s* 219 W. 125  
 Covey, A. K. *2 t* 86 First  
 Cowan, J. H. *3 c* 62 E. 130  
 Cowan, W. *1 s* 62 E. 130  
 Cox, F. F. *3 m* 325 W. 58  
 Cox, G. B. *pl* 29 Vesey  
 Cox, W. C. *4 c* 295-15, Bklyn.  
 Coy, G. L. *4 t* 503 W. 121  
 Coykendall, G. B. *3 c* Hartley  
 Cozzens, H. L. *1 t*  
 22 Pennington, Newark  
 Craddock, C. E. *4 b* 420 W. 121  
 Craft, L. U. R. *3 s* 916 Kelly  
 Craig, W. C. *gr t*  
 447 Lincoln ave., Bklyn.  
 Cramer, R. S. *1 s* 95 Grove, Passaic  
 Cramp, A. P. *2 s*  
 198 Midwood, Bklyn.  
 Crampton, W. D., Jr. *3 c*  
 536 W. 114  
 Cranch, A. R. *2 b* 1673-85, Bklyn.  
 Crandall, H. W. *4 c* 537 W. 121  
 Crane, A. L. *4 c* Hartley  
 Crane, A. S. *1 c* 225 W. 129  
 Crane, E. M. *phar* 201 W. 108  
 Cranston, G. *ph* 342 Lexington ave.  
 Crater, J. F. *3 l* Livingston  
 Craus, M. A. *3 j*

Craven, J. D. *1 c*  
 85 Mercer, Jersey City  
 Crawford, G. E. *3 t* Whittier  
 Crawford, M. H. *4 t* 501 W. 120  
 Creamer, W. A. *3 s*  
 281 Winthrop, Bklyn.  
 Creighton, E. M. *4 t* 419 W. 121  
 Crenshaw, I. *3 t* Whittier  
 Crispell, R. B. *3 l* Livingston  
 Critchlow, R. *ph* New Rochelle  
 Crockett, L. *Sp nm b*  
 640 Madison ave.  
 Crouse, D. S. *nm l* Livingston  
 Cronenberg, C. W. *1 c*  
 54 Mt. Vernon ave., Mt. Vernon  
 Crosby, H. M. *4 b* 604 W. 146  
 Crosby, P. S. *4 t* 430 W. 119  
 Cross, M. P. *pl* 81 W. 50  
 Crossman, P. F. *p* 430 W. 119  
 Crow, A. B. *4 c* 604 W. 114  
 Crow, C. S. *gr t* 522 W. 123  
 Crowell, G. *3 b* 276 Maple,  
 Perth Amboy  
 Cru, R. L. *ph* 90 Morningside Dr.  
 Cruger, H. *1 b*  
 225 W. 2, Mt. Vernon  
 Cruse, B. A. *1 l* 605 W. 115  
 Crystal, B. H. *phar*  
 21 Morrell, Bklyn.  
 Cuevas, R. P. *ph*  
 211 Lafayette ave., Bklyn.  
 Culman, F. *1 l* 476 W. 143  
 Cumberland, W. W. *pl* Livingston  
 Cumming, A. *pl* 557 W. 124  
 Cummins, M. F. *3 t* 203 E. 61  
 Curran, C. J. *1 l* Hartley  
 Currier, G. S. *1 c* 313 W. 102  
 Curry, D. A. *1 c*  
 652 Amsterdam ave.  
 Curry, T. M., Jr. *1 s* 245 W. 104  
 Curry, V. E. *4 c* Hartley  
 Curry, W. A. *1 s*  
 652 Amsterdam ave.  
 Curtice, E. M. *3 b*  
 428 Fulton, Jamaica, L. I.  
 Curtis, J. M. *1 t*  
 61 Summit ave., Jersey City  
 Curtis, M. *2 l* Hastings-on-Hudson  
 Curtis, N. L. *3 t* 519 W. 121  
 Curtiss, G. W. *4 c* 116 Grove,  
 Tarrytown  
 Curwen, G. B. *2 s* Livingston  
 Cushing, M. P. *pl* 419 W. 118  
 Cushman, H. M. *gr t* 437 W. 124  
 Cutler, C. H. *4 t* Whittier  
 Cutler, M. E. *4 t* 28 MacDougal

- Dale, J. gr t* Ansonia Hotel  
*Dale, J. E. 3 b* 566 Walton ave.  
*Dalgleish, I. L. 3 b*  
 181 Summer, Stamford  
*Dallaley, C. A. 2 l*  
 Clarendon Hotel, Bklyn.  
*d'Amato, O. 3 c* 510 E. 119  
*Dameron, J. M. ph* Whittier  
*Damrosch, A. B. Sp nm b* 146 E. 61  
*Dana, H. M. 4 b* Brooks  
*Danaher, E. S. 3 t* Whittier  
*Danielson, Mrs. E. A. 3 t*  
 723 St. Nicholas ave.  
*Danielson, L. C. 2 c* 429 W. 117  
*Dannaker, U. R. uncl t* 417 W. 120  
*Danzig, S. V. H. 3 c* 500 W. 122  
*Darden, W. A. ph* 522 W. 123  
*Dargan, M. pl* 600 W. 122  
*Darlington, E. C. B. 2 c*  
 80 S. 10, Bklyn.  
*Darlington, H. V. B. pl*  
 175 Ninth ave.  
*Darnton, M. C. ph* 202 W. 74  
*Darr, J. W. pl* 600 W. 122  
*Darrough, M. 3 t* 419 W. 119  
*Darvas, F. ph* 949 College ave.  
*Dashiell, J. F. ph* 512 W. 122  
*Daub, A. B. phar* 539 E. 87  
*Daubon, A. D. 2 t* Whittier  
*Davenport, F. I. gr t*  
 88 Morningside Dr.  
*Davenport, H. T. 3 l* 540 E. 76  
*David, W. F. 3 l* 435 W. 117  
*Davidowitz, H. S. ph* 441 W. 124  
*Davies, J. H. 1 b* Edgewater  
*Davis, D. D. phar* 68 W. 68  
*Davis, C. E. p* 408 W. 115  
*Davis, E. R. 2 b* 66 E. 86  
*Davis, G. 1 t* Whittier  
*Davis, G. P. 4 t* 90 Morningside Dr.  
*Davis, H. B. p* Whittier  
*Davis, J. 4 t* 417 W. 120  
*Davis, J. M. 4 m* 325 W. 58  
*Davis, K. M. ph* Brooks  
*Davis, M. F. 1 b* Whittier  
*Davis, R. M. 4 b* 301 W. 84  
*Davis, S. C. 3 b* Whittier  
*Davis, W. H. f a* 66 E. 86  
*Davis, W. F. 3 l* Hartley  
*Dawkins, S. M. 3 l* 419 W. 118  
*Dawley, J. K. 3 t* 420 W. 118  
*Dawson, G. M. 2 c* 633 W. 115  
*Day, B. W. nm t* 56 W. 127  
*Day, L. L. 3 t*  
 17 Winthrop Ter., E. Orange  
*Deacon, E. M. gr t* 502 W. 143  
*Dean, D. 2 b* Euclid Hall,  
 B'way & 86  
*Dean, I. 1 b* 141 W. 105  
*Dearden, E. M. 2 b* 125 E. 91  
*Deardorff, R. E. 1 t* Whittier  
*De Beixedon, B. 2 l*  
*DeBeukelaer, F. L. p* 604 W. 114  
 77 Eighth ave., Bklyn.  
*De Brown, R. 4 t* Whittier  
*Decker, A. M. gr t*  
 417 Williams, E. Orange  
*Decker, R. K. 1 b* Brooks  
*Dee, E. L. 2 s* 21 Convent ave.  
*Dee, G. B. 3 b* 21 Convent ave.  
*Deecke, W. D. 3 t*  
 511a Monroe, Bklyn.  
*De Friece, F. W. 2 l* Livingston  
*de Garmo, M. C. p* Whittier  
*de Golyer, C. E. 3 t* Whittier  
*De Graff, F. A. gr t* 435 W. 119  
*De Groodt, M. I. 1 t*  
 73 Prescott Pl., Jersey City  
*De Groot, M. B. 3 l*  
 98 Carnegie ave., E. Orange  
*Delano, G. ph*  
 512 Lexington ave., Bklyn.  
*Delehanty, T. 1 c* Cliff ave., Pelham  
*de Lima, M. F. 2 s* 560 W. 113  
*de Liguora, A. G. phar* 115 W. 68  
*De Luce, O. S. 3 t* 619 W. 144  
*Demarest, A. T. 3 t*  
 131 E. 21, Paterson  
*Demarest, B. 4 t* Spring Valley  
*Demarest, T. F. 4 t* Whittier  
*Demarest, W. A. 3 t*  
 131 E. 21, Paterson  
*De Maria, T. nm t* 342 E. 121  
*de Montpelier, Mrs. J. f a*  
 612 W. 115  
*Dempsey, E. M. 3 t* Whittier  
*Demuth, F. W. 3 c* 154 W. 105  
*Dennard, Mrs. J. H. 3 t* 423 W. 118  
*Dennelly, W. D. 1 c*  
 Great Neck Sta.  
*Dennis, P. G. pl* Madison  
*Denniston, H. P. 4 m*  
 115 So. Elliott Pl., Bklyn.  
*Derbyshire, A. J., Jr. 2 c*  
 1907 Vyse ave.  
*De Rosa, E. f a* 423 E. 117  
*De Silver, A. 1 l*  
 43 Pierrepont, Bklyn.  
*Desmond, F. 2 t* Oradell  
*Dessar, A. D. 4 b* 238 W. 72  
*Deutsch, E. J. 4 t* 601 W. 115  
*Deutsch, G. F. 1 t* 317 W. 88

- Deutsch, I. J. 1 t* 601 W. 115  
*Deutsch, J. gr t* 1319 Clay ave.  
*Dewar, W. 1 c* 927 Lorimer, Bklyn.  
*Dewey, F. A. pl* 2880 B'way  
*Dexter, J. S. p* 526 W. 123  
*Deyo, C. M. 3 t* 511 W. 122  
*De Young, E. 3 b* 449 E. 137  
*De Young, E. 3 b* 449 E. 137  
*Deysher, E. H. 3 t* 500 W. 121  
*De Zeller, M. C. 3 t* 472 W. 22  
*De Zeller, M. P. 1 t* 472 W. 22  
*Diamond, E. M. 1 j* 128 W. 118  
*Diaz de Villalvilla, M. C. 4 b* 536 W. 113  
*Dick, R. E. 3 t* Whittier  
*Dickert, M. A. 1 t* 4 W. 105  
*Dickey, F. M. gr t* 420 W. 119  
*Dickey, G. L. 4 t* 417 W. 120  
*Dickey, M. R. 3 t* 414 W. 120  
*Dickie, D. P. 4 c* 777 West End ave.  
*Dickie, F. E. p* Livingston  
*Dickinson, H. C. 2 c* 614 W. 113  
*Dickinson, J. A. 2 c* 403 W. 115  
*Dickinson, M. E. gr t* 254 W. 72  
*Dickson, A. ph* 131 W. 116  
*Dickson, L. E. 3 t* 52 Summit ave., Jersey City  
*Diekmann, W. H. 1 s* 200 W. 123  
*Diller, H. E. 4 t* 419 W. 119  
*Dillingham, C. R. gr t* Whittier  
*Dills, D. R. nm 4* 344 W. 36  
*Dinmitt, L. E. ph* Whittier  
*Dimmick, W. W. pl* 420 W. 116  
*Dineen, P. A. L. 3 m* 435 W. 34  
*Dingman, N. McL. 2 m* 359 W. 57  
*Dinnerstein, M. 1 c* 80 Ave. B  
*di Palma, S. 4 m* 329 Seventh ave.  
*Di Stasio, J. 4 s* 390 Broome  
*Dittmer, J. C. 3 s* 286 Park Pl., Bklyn.  
*Divine, M. M. 1 b* 302 Carlton ave., Bklyn.  
*Dix, A. S. Sp nm b* 163 Prospect Pl., Bklyn.  
*Dixon, A. M. phar*  
*Dixon, M. E. 3 t* 418 W. 118  
*Dixon, M. H. phar* 104 Fourth ave., Newark  
*Dixon, P. W. fa* Livingston  
*D'Jerad, E. 2 s* Livingston  
*Dobbelaar, E. M. nm t* Fort Lee  
*Dobbs, A. 3 t* Whittier  
*Dobson, G. G. 1 s* Hartley  
*Dodd, H. N. Sp nm b*  
*Appleton Pl., Glen Ridge*  
*Dodd, R. C. 2 m* 171 Linden ave., Glen Ridge  
*Dodds, W. P. 1 m* 59 W. 65  
*Dodge, B. pl* 90 Park ave.  
*Dodge, D. 2 t* 615 W. 162  
*Dodge, O. J. 1 t* 509 W. 122  
*Dolan, M. I. 3 t* 153 Riker ave., Woodside  
*Dolbeare, F. R. 1 l* Livingston  
*Dold, D. M. 2 m* River Crest, Astoria, L. I.  
*Donham, H. p* 305 Cycrigg ave., Passaic  
*Donnacker, D. M. 4 t* Northport, L. I.  
*Donnan, D. W. 3 t* Whittier  
*Donnelly, A. M. 4 t* Whittier  
*Donnelly, R. V. 2 s* 105 W. 84  
*Donohue, J. J. 4 t* 270 Alexander ave.  
*Donohugh, T. S. ph* 126 Claremont ave.  
*Doody, M. C. 2 b* 107 W. 82  
*Dooner, C. gr t* 88 Morningside Dr.  
*Dorr, L. M. ph* New Rochelle  
*Dornin, A. H. fa* Whittier  
*Dotey, A. I. gr t* 34 Pt. Charles Pl.  
*Doty, G. 3 t* Wyoming  
*Douglass, B. pl* 452 Riverside Dr.  
*Douglas, D. 3 t* Whittier  
*Douglas, I. P. 4 b* Brooks  
*Dow, U. M. gr t* Whittier  
*Dowd, H. L. 4 m* 231 W. 69  
*Dowd, M. R. l* Hartley  
*Dowling, L. 1 s* 551 W. 170  
*Downes, E. H. 4 c* 173 Rutland Rd., Bklyn.  
*Downes, H. R. 3 b* 526 Van Cortlandt Pk. ave.,  
*Yonkers*  
*Downing, G. S. 3 s* 619 W. 113  
*Downs, B. 3 b* 402 W. 124  
*Doyle, W. L. H. 3 s* Hartley  
*Drachman, E. J. 1 l* 128 W. 121  
*Drachsler, J. pl* 163 E. 87  
*Drake, B. W. 1 b* 244 Deems ave.,  
*West New Brighton*  
*Drake, W. A. 2 l* Plainfield  
*Draper, O. H. pl* 600 W. 122  
*Drapkin, S. R. phar* 162 DeKalb ave., Bklyn.  
*Dreibelbis, C. C. 3 t* 522 W. 123  
*Dresher, H. W. 3 c* 352 W. 124  
*Dressel, H., Jr. gr t* 149 Stewart ave., Arlington  
*Drew, W. S. gr t* 425 W. 124



- Drieaus, I. W. *pl* Livingston  
 Driscoll, F. L. E. *1 l* 120 W. 48  
 Drucker, S. *3 s* 688 Eighth ave.  
 Drum, W. N. *3 t* 419 W. 118  
 Drury, H. B. *pl* 524 W. 123  
 Du Bois, A. M. *4 c* 119 E. 57  
 Dubois, P. E. *pl* 600 W. 122  
 Du Bois, R. O. *2 c* 119 E. 57  
 Duevad, E. *2 s* Livingston  
 Duffie, A. D. *4 s* Livingston  
 Dugdale, A. H. *4 m* 561 W. 144  
 Duggan, J. E. *3 l* Livingston  
 Duke, S. P. *gr t* 505 W. 122  
 Dunbar, D. L. *2 c* Dobbs Ferry  
 Dunbar, R. M. *pl* 119 W. 130  
 Duncan, F. A. *3 t* Leonia  
 Duncan, J. D. *1 c* 229 W. 97  
 Duncan, M. E. *ph* 58 Monroe, Bklyn.  
 Duncan, W. Y. *pl* 600 W. 122  
 Dunham, F. G. *2 c* 296 Sterling Pl., Bklyn.  
 Dunkin, R. F. *1 b* 3810 B'way  
 Dunlap, M. P. *pl* 401 W. 118  
 Dunn, A. M. *1 t* Whittier  
 Dunn, H. A. *4 t* Whittier  
 Dunn, W. E. *1 c* 131 Riverside Dr.  
 Dunn, W. E. *pl* Livingston  
 Dunnet, C. *3 b* cor. Farragut Rd., Bklyn.  
 Dunphy, G. *1 b* 404 W. 149  
 Dunseath, S. G. *pl* 600 W. 122  
 Durfee, C. G. *ph* 2258 Ryer ave.  
 Durkee, M. M. *4 s* Hartley  
 Duryea, M. S. *3 t* 519 W. 121  
 Duryee, R. B. *1 t* 525-6, Bklyn.  
 Dushkin, A. M. *gr t* 119 E. 92  
 Dustin, G. O. L. *2 t* 503 W. 124  
 Dutcher, E. O. *ph* 180 Claremont ave.  
 Dwight, M. *2 l* 430 W. 119  
 Dwyight, M. E. *ph* 31 Mt. Morris Pk., W.  
 Dwyer, B. *1 t* 85 W. 14, Bayonne  
 Dwyer, H. E. *3 b* 456 W. 153  
 Dwyer, M. K. *1 t* 343 Summit ave., Jersey City  
 Dwyer, W. W. *2 c* 1225 Madison ave.  
 Dziombia, J. I *s* 327 E. 14  
 Earle, D. *3 b* Hastings-on-Hudson  
 East, A. M. *2 c* 124 E. 28  
 Eastlack, H. E. *p* Livingston  
 Eastman, F. W. *4 m* 355 W. 58  
 Eastman, M. *ph* 504 W. 143  
 Eaton, C. W. *1 l*  
 Eaton, G. F. *4 t* 510 W. 124  
 Ebeling, E. A. *3 t* 56 Windsor Pl., Bklyn.  
 Ebeling, W. B. *3 m* 56 Windsor Pl., Bklyn.  
 Eberle, D. V. *3 t* Whittier  
 Ebert, J. F. *3 l* Hartley  
 Eckelberry, M. L. *1 t* 429 W. 124  
 Eckford, M. O. *gr t* Whittier  
 Eddy, R. *3 t* Whittier  
 Edebohls, F. E. *2 s* 331 W. 101  
 Edell, A. C. *3 b* 430 W. 119  
 Edgerton, A. H. *4 t* Livingston  
 Edgerton, R. *3 t* Whittier  
 Edinger, E. H. *1 c* 387 Jackson ave., Jersey City  
 Edlin, W. *2 j* 540 W. 158  
 Edsall, M. W. *2 t* Whittier  
 Edwards, B. B. *3 m* N. Y. City Home Hosp.,  
 Blackwell's Island  
 Edwards, C. B. *3 j*  
 Edwards, F. *1 t* 790 Riverside Dr.  
 Edwards, F. M. *3 t* Whittier  
 Edwards, G. W. *pl* 61 Russell, So. Jamaica.  
 Edwards, H. G. *3 t* 123 Seventh ave., Bklyn.  
 Edwards, J. B. *2 s* 236 Linden ave., Flatbush  
 Edwards, J. C. *gr t* 220 So. Broad, Elizabeth  
 Edwards, W. F. L. *pl* 118 W. 103  
 Effler, L. R. *4 m* 152 W. 84  
 Egan, H. M. *gr t* 909 Forest ave.  
 Egan, J. T. *fa* 431 W. 117  
 Egbert, L. D. *3 c* 425 W. 146  
 Egerton, F. N., Jr. *p* Livingston  
 Eggers, C. M. *3 t* Whittier  
 Egan, R. F. *ph* 430 W. 119  
 Eglee, E. P. E. *4 m* 515 W. 122  
 Egloff, G. *p* 235 E. 5  
 Ehlerding, E. L. *4 t* Whittier  
 Ehrlich, D. E. *1 c* 529-8, Bklyn.  
 Ehrlich, J. *3 s* 1281 Third ave.  
 Eichacker, E. G. *phar* 382 Covert ave., Bklyn.  
 Eichenberg, M. A. *2 s* Hartley  
 Eichhorn, L. M. *3 m* 1071 St. Nicholas ave.  
 Eichmann, M. *3 l* 370 West, West Hoboken  
 Eichrodt, C. W. *3 s* 627 W. 113  
 Eilbeck, F. H. *4 t* 524 W. 122  
 Eilbeck, W. M. *4 t* 524 W. 122



Eilers, H. 3 s 536 W. 114  
 Eisenberg, I. *pl* 5021 Third ave., Bklyn.  
 Eisner, M. N. 2 c 166 E. 107  
 Elder, F. R. *p* Livingston  
 Elder, G. W., Jr. *fa* 770 Madison ave.  
 Elder, J. *ph* 66 Hamilton ave., Paterson  
 Elder, R. D. 2 l Livingston  
 Elias, N. M. 2 s 423 E. 158  
 Eliot, T. D. *pl* Hartley  
 Elkind, B. 1 s 113 Monroe  
 Ellenwood, J. L. 4 c 531 W. 113  
 Elliff, J. D. *gr t* 3100 B'way  
 Ellinger, G. J. *Sp nm b* 19 E. 61  
 Ellinger, L. J. 2 c 19 E. 61  
 Elliott, H. W. *pl* Whittier  
 Elliott, L. C. 3 t Whittier  
 Ellisson, E. J. *ph* 60 Prospect Pl., Bklyn.  
 Elsasser, H. W. 3 s 302 W. 109  
 Elson, C. *ph* 161 Vernon ave., Bklyn.  
 Elstein, C. 2 c 441 Sutter ave., Bklyn.  
 Elwyn, A. 2 c Museum of Nat. History  
 Embree, C. S. *phar*  
 Emerick, B. I. 1 c 604 W. 114  
 Emerson, E. C. 3 t 505 W. 121  
 Emerson, N. M. 4 b 307 State, Flushing  
 Emin, A. *pl* 404 W. 116  
 Emmerich, W. M. 1 c 201 W. 117  
 Emmert, G. B. 4 s Livingston  
 Emmett, H. F. *phar* 161 W. 64  
 Emmons, M. *ph* 21 W. 73  
 Emmons, W. H. 4 t Livingston  
 Emslie, S. L. *phar* West Side Y. M. C. A.  
 Enders, H. C. *pl* Cooper Union  
 Engel, G. 4 c 2085 Tiebout ave.  
 Engel, S. 2 b 524-44, Bklyn.  
 Engel, S. 1 c 2085 Tiebout ave.  
 Englehardt, I. J. 3 s 957 Fox  
 Engler, M. L. 2 b 2293 Sedgwick ave.  
 English, L. 3 t Hastings-on-Hudson  
 Ensign, W. P. 2 c Hartley  
 Entelmann, M. J. 1 t 333 Alexander ave.  
 Eppley, E. M. 1 b 41 Washington, Port Chester  
 Epstean, E. R. 1 t 611 W. 114

Epstein, B. 1 c 792 Greene ave., Bklyn.  
 Epstein, L. M. *ph* 441 W. 124  
 Epstein, M. L. *ph* 1173-50, Bklyn.  
 Erdman, A. B. 2 t Whittier  
 Erdofy, F. V. *ph* 981 Fox  
 Erhard, Z. 1 c 2407 Seventh ave.  
 Erpf-Lefkovics, C. E. 1 l 301 E. 10  
 Ernst, F. *gr t* 1382 Plimpton ave.  
 Ernst, H. 2 s 31 W. 63  
 Ernst, M. 4 s 152 W. 122  
 Erskine, C. D. 3 t 520 Eighth ave., Bklyn.  
 Erskine, R. 2 b 609 W. 115  
 Erskine, R. S. 3 l 609 W. 115  
 Esberg, H. *ph* 129 E. 47  
 Esser, A. E. 2 s 618 W. 113  
 Estrin, H. J. 4 m 1269-53, Bklyn.  
 Ettari, O. E. 1 c 43 Mayflower ave., New Rochelle  
 Ettinger, N. D. 2 c 530 W. 123  
 Evans, B. A. 3 t Stony Brook, L. I.  
 Evans, C. A. E. 3 t Whittier  
 Evans, C. S. 2 l 61 Cliff ave., Yonkers  
 Evans, H. W. 4 s 3089 B'way  
 Evans, I. L. 3 t 340 E. 125  
 Evans, J. C. *ph* 504 W. 131  
 Evans, L. A. 2 c Christie, Leonia  
 Evans, L. E. *ph* 515 W. 122  
 Evans, R. D. 1 b 3089 B'way  
 Evans, W. B. 4 t Livingston  
 Evens, L. W. 1 c 196 Vernon ave., Bklyn.  
 Everett, J. R. 2 j 1120 Amsterdam ave.  
 Everson, D. R. 1 c 131 W. 71  
 Everson, G. *gr t* Livingston  
 Exstein, L. R. 1 b 500 W. 122  
 Exstein, M. W. 3 c 500 W. 122  
 Eyles, C. E. *pl* 507 W. 121  
 Eyster, J. B. *ph* 417 W. 121  
 Ewing, W. E. *nm s* 222 W. 23  
 Faas, C. T. 2 l 420 W. 119  
 Faber, M. A. 3 t 92 Mercer ave., Plainfield  
 Fagan, J. F. 1 s 143 W. 95  
 Failla, G. 2 s 350 E. 33  
 Fairbairn, R. A. 3 s 531 W. 113  
 Fairbairn, R. L. 4 s 531 W. 113  
 Fairchild, A. C. 4 t Whittier  
 Fairchild, H. N. 1 c Hartley  
 Fairfield, M. B. 3 t 153 Fourth ave., E. Orange  
 Fajans, C. R. 1 b 408 W. 130

- Fales, DeC. 2 l 105 E. 72  
 Fales, H. A. p 308 Schermerhorn, Bklyn.  
 Falk, D. L. pl 151 Central Pk., W.  
 Falke, L. L. p 5316 Thirteenth ave., Bklyn.  
 Fallon, M. L. 1 t Whittier  
 Fallon, P. P. 3 l 501 W. 123  
 Fanning, E. F. fa 4 Convent Hill  
 Fansher, O. 3 t Whittier  
 Faries, J. C. pl 430 W. 118  
 Farnam, T. 4 m 130 W. 57  
 Farnham, C. E. 3 t Arlington  
 Farnsworth, G. A. F. 3 t Whittier  
 Farnsworth, J. A. 2 l Livingston  
 Farnsworth, W. O. ph 140 E. 34  
 Farr, H. B. 3 l 14 W. 10  
 Farrell, C. D. 3 t 84 Esterbrook ave., Rahway  
 Farrell, H. W. 3 t 70 W. 95  
 Farrell, M. D. 1 b 443 W. 43  
 Farrell, T. M. 3 t 137 E. 116  
 Fasano, E. F. phar 57 Storms ave., Jersey City  
 Fash, M. K. 3 t 548 W. 164  
 Faulkner, C. S. 4 m 346 W. 57  
 Faust, E. M. 1 b 512 W. 122  
 Fay, M. J. 4 l 143 Hawthorne ave., Yonkers  
 Fay, T. Y. 2 c Hartley  
 Fearn, H. O. 1 s Hartley  
 Federman, S. 4 s Hartley  
 Fee, J. A. 2 l 414 W. 118  
 Feeley, V. E. 4 t 586 City Island ave., City Is.  
 Fein, J. 2 c 236 Christopher ave., Bklyn.  
 Feinberg, C. 2 c 310 E. 79  
 Feinberg, M. M. 4 m 24 W. 113  
 Feinsod, E. 1 l 60 Eldridge  
 Felbel, F. J. 3 l Hotel Narragansett  
 Feleky, A. 4 t 508 W. 114  
 Felix, P. A. 1 b 471 Park ave.  
 Felker, P. M. 1 l Livingston  
 Felsen, J. 2 m 136 W. 117  
 Felton, R. A. pl 600 W. 122  
 Fenn, I. H. p 155 Chrystie  
 Fennelly, E. 4 t Whittier  
 Fensterblau, L. I. 1 m 392 Wyona, Bklyn.  
 Fenton, W. R. 3 t 433 W. 124  
 Feraud, N. B. 4 t 503 W. 121  
 Ferguson, F. P. 3 l Livingston  
 Ferguson, G. W. 1 b 19 Primrose ave., Mt. Vernon  
 Ferguson, J. 3 b 69 Clinton ave., Jamaica  
 Ferguson, J. DeL. ph 924 Sherman ave., Plainfield  
 Ferguson, J. M. pl 627 W. 113  
 Fergusson, E. M. pl 523 W. 121  
 Fern, S. S. 2 c 10 First, Elizabeth  
 Fernández, G. L. ph 174 W. 89  
 Fernsod, E. 2 l 60 Eldridge  
 Fernstrom, T. M. 1 b 665 Carroll, Bklyn.  
 Ferree, I. J. 3 t 422 W. 115  
 Ferreira, A. V. 3 l 550 W. 114  
 Ferry, R. W. 1 m 155 W. 58  
 Fersch, C. 4 c 456 Ninth ave.  
 Fettke, C. R. p Livingston  
 Fezandié, D. 1 b 165 E. 66  
 Fichandler, A. gr t 1072 Park Pl., Bklyn.  
 Fichter, W. L. 4 c 17 W. 100  
 Fickel, G. G. 3 t 417 W. 121  
 Fickett, M. G. gr t Whittier  
 Field, A. M. gr t 430 W. 122  
 Field, E. A. 4 t 420 W. 121  
 Field, F. M. gr t 522 W. 121  
 Field, H. A. 4 t 511 W. 122  
 Field, K. F. 4 t Whittier  
 Field, M. C. 1 m 158 Hicks, Bklyn.  
 Fike, T. R. V 4 c 152 W. 118  
 Fimmen, E. A. 2 l 501 W. 121  
 Finch, R. S. p 435 W. 123  
 Findlay, E. H. 4 s 175 W. 73  
 Findley, E. T. 3 l 233 N. 7, Newark  
 Fine, N. 4 t 236 Christopher ave., Bklyn.  
 Fink, B. 2 b 40 De Kalb ave., White Plains  
 Fink, E. H. 2 c 40 De Kalb ave., White Plains  
 Finkel, H. 1 s 117 Gates ave., Jersey City  
 Finkelstein, W. phar 61 E. 101  
 Finkle, O. G., Jr. 1 c 115 W. 102  
 Finkle, P. 1 c 936 Sutter ave., Bklyn.  
 Finlayson, D. A. fa  
 Finlayson, F. L. fa 102 W. 84  
 Finlayson, J. G. 3 t 9 Merrick Rd., Rockville Centre  
 Finlayson, R. K. 1 t 9 Merrick Rd., Rockville Centre  
 Finley, A. B. 3 t 124 Morningside ave.  
 Firebaugh, C. W. 3 c 1709 Popham ave.

*Fisbeck, F. C.* 3 t  
40 Highland Pl., Ridgefield Pk.  
*Fisk, D. M.* p 537 W. 123  
*Fish, G. D.* 4 s 119 W. 92  
*Fish, J. B.* p 883 Freeman  
*Fisk, S. E.* 4 t Whittier  
*Fiske, P. B.* 1 m 346 W. 57  
*Fischel, S. G.* ph 118 E. 93  
*Fischer, E. L.* 2 b 229 W. 97  
*Fischer, H. S.* 1 c  
155 Hopkins, Bklyn.  
*Fisher, H. L.* 3 c Hartley  
*Fisher, J. C.* 4 m  
City Hospital, Blackwell's Is.  
*Fisher, L. A.* ph 419 W. 118  
*Fisher, S.* 3 s Hartley  
*Fiske, F. L.* 4 t 540 W. 122  
*Fitch, D. M.* 3 b Astoria, L. I.  
*Fitt, F.* pl 600 W. 122  
*Fitts, J. C.* gr t  
101 Prospect, Ridgewood  
*Fitz-Gerald, A. B.* pl  
*Fitz-Gerald, I. R.* 4 t 74 W. 124  
*Fitzgerald, N.* 4 t 401 W. 118  
*Flagg, L. E.* pl 421 W. 121  
*Flamigan, H. C.* ph  
College of St. Elizabeth Convent  
*Fleck, H. D.* 4 l 304 W. 139  
*Fleer, F. A. W.* 2 b  
301 W. Lincoln ave., Mt. Vernon  
*Flegel, M. E.* 3 t Whittier  
*Fleischman, D. E.* 4 b 303 W. 107  
*Fleming, E. J.* 4 b 544 W. 157  
*Fleming, G. E.* nm t Whittier  
*Flett, R. L.* phar  
*Flint, M. B.* 2 b  
55 Cliff ave., Yonkers  
*Florida, E. M.* 4 t 417 W. 121  
*Flowers, H. L.* 1 c 1477 Vyse ave.  
*Flynn, K.* 1 s 176 W. 87  
*Foerster, W. F.* 2 c  
926 Madison ave.  
*Fogg, W. G.* 1 c 1388 Teller ave.  
*Foland, H. A.* 4 t 511 Hudson  
*Folwell, E. A.* ph Whittier  
*Fondiller, R.* 3 l 1133 B'way  
*Foot, A. B.* 4 t Sixth ave. & 20  
*Foot, F. W.* 3 s 616 W. 113  
*Foot, J. P.* pl 64 Doscher, Bklyn.  
*Foot, J. W.* 4 c 561 W. 180  
*Foot, M. N.* 1 m  
270 Hamilton ave., Richmond Hill  
*Foot, R. B. B.* ph 49 W. 20  
*Forbes, G. M.* 1 b  
307 Jamaica ave., Astoria  
*Forbes, I. B.* 4 t Whittier

*Forbes, R. C.* 4 t  
*Ford, C. Sp nm b* Whittier  
*Ford, M. L.* 1 t Waterbury, Ct.  
617 W. 113  
*Ford, R. H.* 3 c  
22 So. B'way, White Plains  
*Fordyce, G.* 3 t Whittier  
*Forsythe, R. S.* ph Livingston  
*Fortune, S. T.* 1 m 359 W. 55  
*Foster, E. W.* 4 m 123 W. 67  
*Foster, J. T.* 3 s  
107 Duncan ave., Jersey City  
*Foster, S. P.* pl  
811 Ocean ave., Bklyn.  
*Foulk, T. B.* 2 l Livingston  
*Fowler, D. F.* 4 c  
440 Riverside Dr.  
*Fowler, E. nm t* 195 Claremont ave.  
*Fowler, E. N.* 3 t Sensten  
*Fowler, F. D.* 1 c Hartley  
*Fowler, R. H.* ph 772 Park ave.  
*Fox, A. C.* 1 b 33 Bowne ave.,  
Winfield Junction  
*Fox, A. S.* 3 t 505 W. 112  
*Fox, E.* ph 822 E. 163  
*Fox, E. B., Jr.* 1 c  
2567 Sedgwick ave.  
*Fox, E. B.* 4 t 581 W. 161  
*Fox, H. R.* ph 2567 Sedgwick ave.  
*Fox, K. N.* 2 b 505 W. 112  
*Fox, L.* 2 b Brooks  
*Fox, W. V.* 3 s 20, Flushing  
*Frame, R. M.* gr t 140 W. 20  
*Francis, L. R.* 1 c 172 W. 141  
*Francis, M. S.* 3 t Whittier  
*Frank, A. G.* gr t Grantwood  
*Frank, E. H.* 3 t 138 W. 78  
*Frank, J.* p 47 Willow, Corona  
*Frank, M.* 3 l 414 W. 118  
*Frank, R.* 2 t 324 E. 79  
*Frank, V. P.* 4 c 1980 & Seventh ave.  
*Franke, C. E.* ph 423 W. 118  
*Franke, E. E.* 2 t Bound Brook  
*Frankel, S.* 2 s 1923 Daly ave.  
*Frankfurter, E.* 1 t 1045 Clay ave.  
*Franklin, A. D.* 1 b  
44 Elmhurst ave., Elmhurst  
*Franklin, A. M.* ph 420 W. 119  
*Franklin, K. M.* 4 t  
38 Sanford ave., Flushing  
*Franklin, M. L.* 4 b  
44 Elmhurst ave., Elmhurst  
*Franklin, R. D.* 1 c Hartley  
*Fraser, D. G.* 1 b  
3 Willow Pl., Yonkers  
*Fraser, L.* 4 j 627 W. 113  
*Frawley, F. A.* phar 75 W. 68

- Frazee, J. C. *gr t* 547 W. 123  
*Frazee, Mrs. R. nm t* 547 W. 123  
*Frear, I. L. 4 t* Whittier  
 Frech, R. H. 4 *c* Teaneck  
 Fredman, S. *ph* 520 W. 122  
 Freehof, M. E. *f a*  
 620 Carlton ave., Bklyn.  
 Freedman, I. 1 *c*  
 714a Humboldt, Bklyn.  
 Freedman, L. 4 *j* 42 W. 116  
*Fredsall, O. A. 3 s*  
 414 Carlton ave., Bklyn.  
*Freeman, H. W. 4 t* Glen Ridge  
*Freligh, L. P. 3 t* Whittier  
 French, C. T. A. *pl* 195 W. 134  
 French, H. J. 2 *s* 252 W. 105  
*French, L. G. 4 t* 405 W. 118  
*French, L. H. 3 t* Whittier  
*French, M. F. 3 t* 422 W. 115  
*Frerichs, H. M. D. pl*  
 418 St. Nicholas ave.  
 Freudenfels, E. *f a* 142 E. 83  
*Freudenthal, R. F. 3 b*  
 1003 Madison ave.  
 Freund, H. H. 3 *m* 311 W. 81  
 Frey, W. G., Jr. 1 *c*  
 205 Grand ave., Astoria  
 Freygang, G. G. *p*  
 Stevens Institute  
 Fricke, F. J. H. *p* 408 W. 115  
 Fried, H. B. 4 *t* 329 E. 79  
*Fried, R. phar* 1400 Second ave.  
*Frieder, E. 3 b* 302 Central Pk., W.  
*Friedman, H. F. 2 b* 18 E. 92  
 Friedman, W. 3 *s* 485 E. 140  
 Friedman, W. 2 *m* 7 Ave. B.  
 Friedmann, J. M. 1 *s* 238 W. 103  
 Friedrich, C. H. S. 2 *c* 335 E. 52  
 Friedrich, P. E. 2 *s*  
 2400 Bathgate ave.  
*Friend, E. V. 3 b* 62 W. 124  
*Fries, C. C. 2 b* 9 W. 82  
*Friess, L. L. ph* 70 Morningside Dr.  
 Friou, G. 4 *c* 498 State, Bklyn.  
 Frisch, E. *ph* 109 Gipson Pl.,  
 Far Rockaway  
 Frissell, S. D. 4 *j* 57 W. 44  
 Fritts, F. 4 *l* Hartley  
*Froelich, C. L. 2 b*  
 436 Throop ave., Bklyn.  
 Frost, B. R. 2 *l* Livingston  
*Frost, H. F. gr t* 246 E. 62  
 Frost, N. 4 *t* 262 W. 121  
 Fruchtmann, F. H. 4 *m*  
 City Hospital, Blackwell's Is.  
 162 Maujer, Bklyn.
- Fruth, V. J. 4 *m*  
 Frye, L. A. *pl* 423 W. 118  
 Fugita, K. *pl* 53 W. 106  
 Fuhrer, O. A. 2 *s* 333 E. 94  
*Fuller, A. 2 b* 150 Palisade ave.  
 Jersey City  
 Fuller, E. M. 3 *l* Freeport  
 Funke, C. A. D. 1 *s* 160 W. 142  
 Furniss, C. C. 3 *m* Livingston  
*Furst, Mrs. M. L. 4 t* 501 W. 120  
 Furstenwalde, H. C. 3 *s* 50 E. 50  
 Fusfeld, I. S. 2 *c* 106 Gerry, Bklyn.
- Gabriel, J. C. 1 *s*  
 Gachot, C. A. J., Jr. 1 *s* 137 E. 73  
*Gage, L. R. 4 t* 500 W. 114  
 Gager, H. W. 1 *m* 420 W. 121  
 Gahagan, A. J. 4 *c* 614 W. 113  
 Gailor, F. *ph* 115 Washington Pl.  
 Gaither, E. H. 1 *c*  
 39 Remsen, Bklyn.  
*Galbraith, L. G. 1 t* Whittier  
 Gale, W. D. 2 *s* 400 W. 118  
 Galt, J. M. 3 *c* 139 E. 37  
*Galt, M. M. ph* 503 W. 121  
*Galvin, K. M. 4 t* 400 W. 118  
 Gamba, M. *f a* 237 W. 107  
 Gambrell, J. M. *gr t* Livingston  
 Gammora, H. W. *Phar*  
 215 Manhattan ave.
- Gampert, L. 1 *s* 2 E. 127  
 Gamrin, E. 3 *m* 310 E. B'way  
 Garabedian, H. L. *phar* 600 W. 122  
*Gardiner, C. L. 3 t* 10 W. 103  
 Gardner, E. M. 2 *s*  
 464 Greene ave., Bklyn.  
 Gardner, F. S. 4 *s*  
 464 Greene ave., Bklyn.  
*Gardner, L. M. gr t* 515 W. 124  
*Garlick, E. S. 3 t*  
 34 Paterson ave., Paterson  
 Garnjost, W. T. S. 1 *c*  
 84 High, Yonkers
- Garrison, C. G. *gr t* 439 W. 123  
 Garrison, M. 3 *t* 511 W. 122  
 Garrison, W. L. 2 *s*  
 84 McDonough, Bklyn.
- Garritt, A. W. *nm t*  
 131 Livingston, Bklyn.
- Garry, L. S. 3 *c* 869 Elmsere Pl.  
 Garth, T. R. *ph* 433 W. 124  
*Garvey, L. F. 3 t* 15 W. 64  
 Gatch, N. B. 4 *s* Hartley  
*Gates, F. W. 3 b* 361 W. 123  
 222 Percy, Flushing  
 Gates, W. J. 4 *c*



Gauder, C. J. G. *fa*  
183 Berkeley Pl., Bklyn.  
Gaujot, R. P. *nm s*  
Doughaston, N. Y.  
Gaul, M. E. *1 t* Whittier  
Gaul, W. H. *4 m*  
38 Livingston ave., Yonkers  
Gavin, H. *p* 28 W. 97  
Gay, K. *SpM b* 205 W. 106  
Gayer, H. D. *4 m* 420 W. 121  
Geary, N. G. *2 b*  
South Plainfield, N. J.  
Geddes, J. A. *pl* 530 W. 123  
Geer, F. H. *4 c* 60 W. 84  
Geer, H. *ph* 50 Pineapple, Bklyn.  
Geesey, A. F., Jr. *2 j* Hartley  
Geffen, M. M. *1 j* 416 E. 187  
Geiss, M. A. *1 t* 423 W. 118  
Geliebter, P. H. *nm c* 96 Willett  
Gelvin, L. M. *4 t* Whittier  
Gentry, A. H. *fa* Hartley  
Genung, G. R. *4 s* 124 W. 71  
Geuttsch, L. M. *1 t*  
Crescent ave., Leonia  
George, A. L. *2 l* Livingston  
George, D. B. *pl*  
Grand Union Hotel  
George, R. J. *3 l*  
1116 Amsterdam ave.  
Geraty, C. M. *2 b* Brooks  
Gershon, V. *3 s* 243 E. B'way  
Gerson, B. F. *3 c* 403 W. 115  
Gerstein, S. R. *2 l*  
468 Monroe, Bklyn.  
Gerstle, C. *3 t* 330 W. 95  
Gertz, M. *1 s*  
30 Union Hall, Jamaica  
Gesell, H. *1 m* 516 W. 25  
Getzov, S. *1 s* 862 Jennings  
Ghering, E. *4 t* 420 W. 121  
Giammatteo, E. S. *nm t*  
162-20, Bklyn.  
Gibbons, M. E. *4 t* 400 W. 118  
Gibbs, L. G. *4 t* 523 W. 121  
Gibbs, W. F. *3 l* 879 West End ave.  
Gibson, A. K. *1 t* Whittier  
Gibson, A. W. *1 c* 161 W. 81  
Gibson, B. C. *3 t* 420 W. 121  
Gibson, T. F. *fa* 430 W. 118  
Giden, A. A. *1 l* 80 Pitt  
Gifford, F. W. *nm t* 600 W. 116  
Gifford, G. I. *3 t* 519 W. 121  
Gifford, Mrs. I. B. *2 t*  
St. Andrews, 72 & B'way  
Gignoux, E. M. *p* Great Neck

Gilbert, E. H., Jr. *1 c*  
17 Cypress ave., Flushing  
Gilbert, F. B. *3 s*  
17 Cypress ave., Flushing  
Gilbert, G. R. *pl* Huntington  
Gilbert, R. *p* 1115 Amsterdam ave.  
Gildersleeve, N. B. *ph*  
37 Downing, Bklyn.  
Giliberti, V. *4 m*  
286 Montross ave., Rutherford  
Gill, D. S. *1 s* Hartley  
Gilleaudeau, H. C. *2 b* Brooks  
Gillespie, J. P. *pl* 490 Riverside Dr.  
Gillett, W. V. K. *1 s* 606 W. 122  
Gillette, C. E. *gr t*  
23 Salem, Hackensack  
Gilliland, F. K. *4 t* Whittier  
Gillson, H. V. *3 m*  
21 Lee Pl., Paterson  
Gilman, C. *1 c* Hartley  
Gilmore, F. U. *pl* 507 W. 111  
Gilman, H. C. *4 t* 509 W. 122  
Gilmore, D. P. *ph*  
689 Greene ave., Bklyn.  
Giltner, E. E. *pl* 418 W. 118  
Ginnell, W. S. *4 c* 330 W. 102  
Ginsberg, C. *2 c* 134 Lawrence  
Ginsberg, I. *4 s* 1052 Findlay ave.  
Ginsburg, B. *phar* 1735 Victor  
Giocimo, R. G. *1 l*  
72 E. Jackson ave., Corona  
Girdner, P. M. *ph* 47 W. 71  
Girdner, F. W. C. *1 c* 47 W. 71  
Giroux, L. M. *fa* 11 W. 81  
Githens, T. F. *4 s*  
366 St. Nicholas ave.  
Given, A. *3 t* Dumont  
Given, P. L. *1 l*  
Gladstein, J. *1 s* 74 Willett  
Glassberg, B. *pl*  
143 Christopher ave., Bklyn.  
Gleason, D. S. *4 t*  
27 Monroe Pl., Bklyn.  
Gleeson, J. M. *1 s* 184 W. 101  
Gless, M. L. *4 b* 574 High, Newark  
Glimm, W. F., Jr. *2 s*  
155 Clinton ave., Jersey City  
Glover, C. S. *4 c*  
3 Adrian ave., Marble Hill  
Glover, H. M. *3 t* 412 Ninth ave.  
Gluck, E. L. *3 l* 1041 Madison ave.  
Goddard, N. *4 t* 90 Morningside Dr.  
Goding, A. T. *1 j* Hartley  
Godley, W. E. *2 c* Bay Side, L. I.  
Goede, E. B. *3 b* 75 E. 81  
Goerlich, A. C. *1 c* 1051 Tinton ave.



- Goetz, G. G. 2 l Livingston  
*Goerts, M. p* 343 E. 58  
*Gogin, E. G. pl* Brooks  
Gold, H. 1 c 887 Kelly  
Gold, M. 3 t  
623½ Willoughby Ave., Bklyn.  
Goldberg, H. 2 m 838 Hewitt Pl.  
Goldenson, S. H. ph  
Goldfarb, B. 1 m 1551-52, Bklyn.  
Goldfarb, I. nm c  
389 Clinton, Bklyn.  
Goldin, G. B. 1 l Livingston  
*Goldman, A. ph* 132 E. 70  
*Goldman, H. L. 4 b* 413 W. 147  
Goldman, M. R. 2 s  
585 B'way, Bklyn.  
Goldman, P. 3 s 416 W. 122  
*Goldmann, J. 3 t* 416 W. 122  
Goldmann, M. 1 c  
210 Hewes, Bklyn.  
*Goldsmith, B. pl*  
68 Cambridge Pl., Bklyn.  
Goldsmith, H. 4 t 1172-50, Bklyn.  
Goldsmith, M. S. 1 c Hotel Ansonia  
Goldstein, D. 4 s Hartley  
Goldstein, H. S. ph 8 E. 97  
Goldstein, J. phar 312 Madison  
Goldstein, J. C. 2 s 419 E. 73  
*Goldstein, R. 4 b* 54 E. 108  
Goldstein, W. M. 3 s  
296 Central Pk., W.  
Goldstone, E. H. 1 b 2 W. 89  
Goldstone, J. 2 m 1126 Park ave.  
Goll, B. C. 3 t 25 Pulaski, Bklyn.  
Gomersall, R. 1 c Nyack, N. Y.  
Goode, N. 3 t 411 W. 115  
Goodglick, S. 1 m  
Goodhart, H. pl 21 W. 81  
Goodhue, F. 2 l 157 E. 34  
Goodman, B. B. 3 c 33 Essex  
*Goodman, C. B. 3 t* Whittier  
Goodman, H. 2 c 141 W. 10  
Goodman, H. I. 1 j  
722 Greene ave., Bklyn.  
Goodman, I. 2 c  
1, 6 Pitkins ave., Bklyn.  
Goodman, S. phar 117 W. 119  
Goodrich, F. gr t 345 E. 15  
Goodspeed, G. C. pl 95 Rivington  
Goodstein, P. 1 c 26 Lenox ave.  
Goodwin, W. C. 1 c 550 W. 114  
*Goodwin, E. L. pl* 415 W. 115  
*Goodwin, R. S. gr t* Whittier  
Gordon, F. A. 3 c  
328 Westfield ave., Elizabeth  
Gordon, K. J. 1 c Weehawken
- Gordon, L. p 524 W. 123  
Gordon, P. 1 c  
158 Bergen, Newark  
*Gordon, V. B. 2 b* Nutley  
Gordon, W. E. 2 s  
1881 Madison ave.  
Gore, A. D. 3 l Livingston  
Gorsch, R. V. 1 m  
3332 Decatur ave., Bronx  
*Goss, H. 4 t* 519 W. 121  
Gottesman, J. 2 m 669 E. 165  
Gottesman, M. 4 c  
112 Gerry, Bklyn.  
Gottlieb, B. 3 c 104 E. 81  
*Gottlieb, S. E. 3 b*  
173 Amity, Flushing  
*Goucher, E. nm t* 416 W. 122  
Gough, Z. M. 4 b  
406 So. Columbus ave., Mt. Vernon  
Gould, M. B. Sp t  
444 Park, Upper Montclair  
Graae, R. 2 b  
24 Market, Perth Amboy  
Grady, J. T. 1 l  
100 Morningside Dr.  
Graeb, G. H. fa 1114 Forest ave.  
Graeff, M. E. 3 t  
303 Hudson, Hoboken  
Graff, J. R. 3 l 565 W. 113  
Grafton, H. K. 3 c 205 W. 107  
Graham, A. L. 2 c 321 W. 94  
Graham, S. E. 1 c 3875 B'way  
*Grandin, F. 3 t* 116 W. 76  
Grant, F. 3 t 5 Whittier, E. Orange  
Grant, P. McN. 2 c Hartley  
Grant, W. M. 4 s Hartley  
Grattan, J. F. 4 m 1210 Tinton ave.  
Grattarola, D. T. 3 t  
3240 Barker ave.  
Graves, F. A. 3 t 527 W. 123  
Graves, L. C. 1 t 601 W. 113  
Gray, J. N. 3 t 392 Third, Bklyn.  
*Gray, H. I. 4 t* 416 W. 122  
*Gray, V. F. ph* 420 W. 121  
Gray, C. ph 4 W. 129  
*Gray, M. 2 b* Brooks  
Green, A. ph 216 W. 143  
Green, A. A. 3 c  
938 St. Nicholas ave.  
Green, E. M. 3 t 41 Broad, Newark  
Green, G. M. p 460 Manhattan ave.  
Green, H. C. pl 317 W. 114  
Green, L. 1 b  
146 Second ave., Astoria  
Greenbaum, E. S. 1 l 2 E. 94  
Greenbaum, G. R. 2 b 2 E. 94

*Greenbaum, M. R. B. nm t*  
1082 Anderson ave.  
*Greenberg, D. 3 c* 562 W. 113  
*Greenberg, H. p* 68 St. Mark's Pl.  
*Greenberg, J. R. f a*  
2040 Seventh ave.  
*Greenberg, J. W. 3 j* 562 W. 113  
*Greenberger, M. 2 m* 302 E. 79  
*Greenburg, I. 3 b*  
92 Morningside ave.  
*Greenburg, L. 3 s* 557 W. 124  
*Greene, G. P. f a* Livingston  
*Greene, M. H. 4 t* 416 W. 122  
*Greenebaum, M. 3 l* 911 Park ave.  
*Greenfield, S. 4 t* 88 Lewis  
*Greenleaf, D. L. 2 s* Livingston  
*Greenwald, G. V. 3 b*  
27 So. Seventh ave., Mt. Vernon  
*Greenwald, L. 1 s* 317 E. 57  
*Greenwald, R. R. 3 t*  
32 St. Mark's Pl.  
*Greenwood, D. 4 t* Whittier  
*Greenwood, W. E. 3 t* 3692 B'way  
*Gregg, R. E. gr t* 419 W. 118  
*Gregory, F. M. 4 t* 525 W. 123  
*Gregory, M. G. phar*  
New Canaan, Conn.  
*Grenelle, M. B. 4 t* Haworth  
*Gresser, A. P. 1 c*  
300 Seventh ave., Bklyn.  
*Gretsch, H. 3 s* 1183 Bergen  
*Greve, H. C. pl* 523 W. 21  
*Grief, A. D. f a*  
Hastings-on-Hudson  
*Griesemer, Z. L. 4 m*  
146 Fifth ave., E., Roselle  
*Grieve, R. P. 3 s* 501-6, Bklyn.  
*Grievies, D. 3 t* 430 W. 122  
*Griffen, R. F. 3 c*  
37 Brevoort Pl., Bklyn.  
*Griffin, E. B. 4 c* 55 W. 47  
*Griffing, J. B. ph* 600 W. 122  
*Griffith, E. St. J. f a* 612 W. 116  
*Griffith, G. 4 t* Brewster  
*Griffith, J. 3 t* Whittier  
*Griffith, L. G. 4 t* 523 W. 122  
*Grill, A. M. 3 l* 305 W. 114  
*Grimshaw, H. E. 3 c*  
Kensington Rd., Garden City  
*Griscom, A. 4 c*  
21 Washington Sq., N.  
*Groesbeck, K. ph*  
447 Fort Washington ave.  
*Grof, C. 3 b* 168 Spring, Ossining  
*Grof, J. 2 b* 168 Spring, Ossining  
*Grollman, M. 1 m* 150 Henry

*Groman, S. 1 s* 725 Fairmount Pl.  
*Gross, A. N. 3 t* 165 Ave. A.  
*Gross, B. H. p* 620 W. 179  
*Gross, L. M. 3 s* 417 Riverside Dr.  
*Gross, R. G. 1 b*  
254 Bedford ave., Mt. Vernon  
*Grossbaum, B. 2 c* 920 Kelly  
*Grossbaum, L. 4 s*  
831 Hunts Point ave.  
*Grossman, B. L. ph* 531 W. 123  
*Grossman, E. 1 b*  
1347 Lexington ave.  
*Grossman, H. 1 s* 1218 Third ave.  
*Groten, F., Jr. 1 s*  
45 Park ave., Paterson  
*Groves, J. pl* 175 Ninth ave.  
*Grunberg, I. A. 1 c* 200 W. 111  
*Grunow, W. R. 3 s* 540 W. 113  
*Gubner, P. A. 1 b* Brooks  
*Guérin, M. E. ph*  
College of St. Elizabeth, Convent  
*Guernsey, E. 1 3 t*  
530 Van Cortlandt Pk. ave.,  
Yonkers  
*Guernsey, R. E. 3 b* 200 W. 99  
*Guggenheim, G. B. pl* 14 E. 92  
*Guggenheim, R. M. 1 c* 121 E. 90  
*Guibert, J. C. N. 4 s*  
2323 Davidson ave.  
*Guitéras, J. G. 4 s*  
44 Morningside Dr.  
*Gumbart, W. B. 1 l* So. Norwalk  
*Gustapon, W. W. ph* Kenilworth  
*Guthrie, C. S. 1 b* 232 E. 11  
*Guterman, H. 1 s* 53 W. 113  
*Gwathmey, W. R. 1 c* Hartley  
*Gyger, J. T. 4 t* 536 W. 114  
*Haag, F. G. 4 t* 625 W. 156  
*Haake, C. H. G. 4 m* 269 W. 153  
*Haaren, A. H. 3 c* 147 W. 122  
*Haaren, W. F. 4 s* 147 W. 122  
*Haber, I. 3 l*  
718 Angelique, West Hoboken  
*Hackedorn, M. ph*  
117 St. John's Pl., Bklyn.  
*Hadsell, E. G. 2 b* 99 Claremont ave.  
*Hadsell, I. W. 3 s* 99 Claremont ave.  
*Haefele, H. W. f a*  
46 Randolph ave., East Rutherford  
*Haenssler, F. gr t*  
879 Sterling Pl., Bklyn.  
*Hagemeyer, F. H. 1 c* 815 Ritter Pl.  
*Hagenbacher, J. S. 1 s*  
842 Park Pl., Bklyn.  
*Haibison, J. A. 1 t* Whittier

- Haiblum, L. N. 1 l  
     682 Bay, Stapleton  
*Haight, H. I. ph* 340 E. 198  
 Haines, D. W. 4 c 330 W. 102  
 Haire, T. C. f a 565 W. 113  
*Halbert, L. nm t* 35 E. 62  
 Haldenstein, A. A. 2 c 321 W. 92  
 Haldeman, H. W. 4 s  
     389 West End ave.  
*Hale, A. M. 3 t*  
     117 Van Buren, Bklyn.  
 Hale, R. 3 c 6 W. 66  
*Halfpenny, E. 4 b* Lynbrook, L. I.  
*Halgrim, A. O. 3 t*  
     1272 Amsterdam ave.  
 Hall, A. C. ph Livingston  
 Hall, B. H. 2 l 136 W. 44  
 Hall, C. E. 3 c Livingston  
 Hall, C. J. 3 c 49 Claremont ave.  
*Hall, D. 1 b* 80 Morningside Dr.  
 Hall, D. E. gr t  
     18 Elizabeth, Port Richmond  
 Hall, F. C. 2 c 245 W. 48  
 Hall, G. B. f a 473 W. 140  
*Hall, H. C. gr t* 415 W. 118  
 Hall, H. T. 2 l  
     200 N. Arlington ave., E. Orange  
 Hall, J. O. pl 423 W. 118  
 Hall, M. E. ph 534 W. 179  
*Hall, M. G. 1 t* Whittier  
 Hall, R. O. pl 419 W. 118  
 Hall, S. E. 3 l 521 W. 111  
 Haller, D. A. 4 m Livingston  
 Haller, W. ph Livingston  
 Halliday, E. M. pl 600 W. 122  
 Halliday, E. M. ph 600 W. 122  
*Hallock, F. A. p* 527 W. 121  
 Halloran, W. F. 3 t Hartley  
 Halper, A. V. phar  
     956 Leggett ave.  
 Halpern, H. 3 m  
     1952 Amsterdam ave.  
 Halsted, H. 2 m 39 W. 61  
 Ham, W. C. 1 l 435 W. 117  
 Hambidge, G. J. 4 c Hartley  
*Hamburger, N. F. ph* 151 W. 140  
 Hamdi, A. F. 2 s Livingston  
*Hamel, G. gr t* 288 Ridge, Newark  
 Hamilton, A. T. 1 s 177 E. 64  
 Hamilton, B. P. 4 s Hartley  
 Hamilton, C. E. 1 c 430-50, Bklyn.  
*Hamilton, Mrs. F. M. pl* 406 W. 124  
 Hamlin, T. F. f a  
     105 Morningside ave.  
 Hammerstein, O. H. 1 c  
     315 Central Pk., W.
- Hammond, F. G. phar 44 W. 110  
 Hamrick, J. Y., Jr. 4 m 356 W. 57  
 Hanaway, R. C. 1 c  
     220 Audubon ave.  
 Hand, C. K. 3 m  
     218 So. Third ave., Mt. Vernon  
 Haney, J. D. gr t 468 Riverside Dr.  
*Hanley, F. L. gr t* 141 W. 90  
 Hann, C. J. 1 l 309  
 Hanmer, J. L. 2 c  
     1461 Glenwood Rd., Bklyn.  
 Hannan, W. S. p 121 Mt. Hope Pl.  
 Hanrahan, F. V. 4 t  
     1032 Madison, Bklyn.  
 Hansen, H. B. 3 m  
*Hanson, D. E. 3 t* 212 W. 120  
*Harada, K. gr t* 188 Claremont ave.  
 Harada, T. ph 80 Manhattan ave.  
*Harbison, J. A. 1 t* Whittier  
*Harding, K. A. gr t*  
     1298 Dean, Bklyn.  
 Harding, W. J. 1 s  
     1042 Bergen, Bklyn.  
*Hardwick, E. G. 2 b*  
     662 E. 32, Bklyn.  
*Hardy, R. G. pl* 157 Willow, Bklyn.  
*Hardy, S. D. pl* 419 W. 118  
*Haring, E. L. 1 b*  
     446 Cherry, Elizabeth  
 Harkey, T. L. p 620 W. 116  
 Harmon, E. ph 416 W. 122  
*Harper, E. M. 2 t*  
     6714 Ridge Boulevard, Bklyn.  
*Harper, J. 2 b*  
     1071 St. Nicholas ave.  
 Harper, P. S. 1 s Hartley  
 Harrah, E. 1 l 27 E. 64  
*Harrer, H. M. 2 b*  
     233 Macon, Bklyn.  
 Harrigan, M. H. p  
     76 Morningside Dr.  
*Harrington, F. I. nm t* 104 W. 96  
 Harris, A. 1 s 254 W. 103  
*Harris, B. L. 3 t* 540-5, Bklyn.  
 Harris, C. P. 3 s 243 W. 98  
*Harris, F. Sp M b* Brooks  
*Harris, G. T. 3 t* 400 W. 118  
*Harris, H. 3 b* Brooks  
*Harris, N. 4 b* 254 W. 103  
 Harris, N. C. pl Livingston  
 Harris, R. S. 4 c Hartley  
 Harris, R. V. K., Jr. 1 s  
 Harris, R. W. 3 s 429 W. 117  
     299 Alexander ave.  
 Harris, T. A. E. 2 l 31 E. 49

Harrison, G. I. 3 s  
 1441 Madison ave.  
*Harriss, O. B.* 1 t 420 W. 121  
 Hart, R. H. *ph*  
 724 De Graw ave., Newark  
 Hartig, S. H. 2 s 228 Audubon ave.  
 Hartley, E. *fa* 463 W. 164  
 Hartley, L. R. 600 W. 122  
 Hartshorne, H. *ph* 600 W. 122  
 Hartwell, F. W. *p* 5 Hart, Bklyn.  
*Harvey, L. E. gr t* 19 W. 31  
 Harvey, W. J. 3 s 19 W. 31  
 Harvitt, A. 3 c 192 Hooper  
 Harvitt, H. G. 1 c  
 192 Hooper, Bklyn.  
*Harwood, E. P.* 4 t 4305 B'way  
 Harwood, H. R. 2 s Tenafly  
*Hasberg, G. S.* 4 b  
 99 Claremont ave.  
 Haskins, B. T. 1 c 416 W. 122  
 Haslett, R. R. *nm j*  
 59 Summit ave., Elmhurst  
 Hastings, F. A. 1 c  
 102 Maple, Richmond Hill, L. I.  
 Hauben, L. 3 c 86 ave. B.  
 Haughwout, F. G. *nm c* 316 W. 79  
 Haulon, J. T. 1 s 601 W. 115  
*Hausner, M. M.* 3 t  
 1 Dusenbury Pl., White Plains  
*Haven, M.* 1 t Whittier  
*Havens, G.* 3 t Whittier  
*Havens, H. B.* 2 t Whittier  
*Havens, H. C.* 2 t Whittier  
 Havens, W. W. 3 s 469 E. 134  
*Haviland, E.* 4 t  
 30 So. Elliott Pl., Bklyn.  
*Hawes, E. W.* 3 b  
 13 Leland ave., New Rochelle  
 Hawk, K. W. 2 s Hartley  
*Hawkes, A. H.* 3 t Whittier  
*Hawkey, E. M.* 4 t  
 89 Sussex, Hackensack  
 Hawley, E. C. *gr t* 439 Manhattan  
 Hayden, L. F. 4 s 618 W. 113  
 Hayden, P. M. *ph* Livingston  
 Hayes, C. W. *pl* 600 W. 122  
 Hayes, E. A. 1 s 1625-49, Bklyn.  
*Hays, B. R. ph* 276 Riverside Dr.  
*Hays, H. H. fa* 276 Riverside Dr.  
 Hays, L. St. C. 4 m 161 W. 61  
*Hayssoon, M. P.* 4 t  
 641 E. 26, Paterson  
 Heard, W. S. 3 t 610 W. 115  
 Heady, J. H. *pl* 424 W. 20  
 Hearn, C. W. 1 c 496 E. 17, Bklyn.  
*Hearn, M. H.* 3 t 415 W. 118

Healy, C. E. 3 l  
 722 St. Nicholas ave.  
 Healy, H. H. 2 l 408 W. 115  
 Healy, J. R. *p* 430 W. 118  
 Healy, J. X. *ph* 2582 Eighth ave.  
 Heath, J. N. 1 s 752 E. 18, Paterson  
 Heaton, H. C. *ph* University Hgts.  
 Hecht, A. S. 1 s 64 W. 88  
*Hecht, R.* 1 b 9 E. 97  
 Heckelman, I. 1 t 34 Scammel  
 Hecker, J. F. *pl* 505 W. 122  
*Hedges, H. H.* *pl* 135 E. 52  
*Hedley, P.* 2 b 2308 Andrews ave.  
 Heflin, J. W. *nm l*  
 60 Washington Sq., So.  
 Hegeman, A. *nm l* Bklyn.  
*Heidenis, M. B.* *pl* 348 W. 55  
*Heilprin, M.* *p* 401 W. 118  
*Heinemann, B. D.* 3 b 221 E. 72  
*Heitlinger, C. A.* 3 t 267 W. 136  
*Helland, H. R.* 1 t  
 St. Luke's Hospital  
*Heller, O. V.* 4 t 523 W. 121  
 Hellman, M. *p* 40 E. 41  
 Helms, H. H. 1 c Ossining  
 Henderson, H. B. 4 c Hartley  
 Henderson, H. G., Jr. 3 s  
 434 Riverside Dr.  
 Henderson, J. L. 4 c 367 W. 116  
 Hendrick, P. E. 2 c 633 W. 115  
 Hendricks, H. S. 3 c 54 W. 87  
*Hendricks, R.* 4 b Whittier  
*Hendrickson, L. V.* 3 t Whittier  
 Henk, R. L. *nm t* Caldwell  
 Henkel, W. *phar*  
 1533 Greene ave., Bklyn.  
 Henne, A. W. 1 c 1035 Forest ave.  
 Hennes, H. L. 1 m 332 E. 30  
 Henry, A. S. H. 1 s  
 333 Central Pk., W.  
*Henry, E. M.* 2 b 80 Claremont ave.  
 Henry, H. C. *ph* 1404 Park ave.  
 Henry, J. R. *pl* 9 Second ave.  
 Henry, L. S. 3 c 435 W. 117  
 Hensel, S. R. 1 s  
 3526 Boulevard, Jersey City  
 Hepburn, J. S. *p* 437 W. 59  
 Herbermann, H. F. 1 l  
 346 Convent ave.  
 Herbert, L. M. 1 m 29 Canal  
 Herbert, W. H. 2 c 434 W. 22  
*Herendeen, J. E.* 3 t 207 W. 85  
*Hereth, M. M.* 1 t  
 2104 Beverly Rd., Bklyn.  
 Herkert, K. J., Jr. 2 c 565 W. 113  
 Herman, A. J. *phar* 842 W. 46



- Herman, H. 4 t* 111 W. 68  
*Herman, H. 2 c* 208 E. 69  
*Herman, M. K. 1 s* 300 W. 109  
*Herman, M. L. 3 t* 519 W. 121  
*Herman, S. 2 c* 1273-42, Bklyn.  
*Hermes, H. L. 1 m* 332 E. 30  
*Hernandez, J. A. 4 s* 237 W. 107  
*Herod, D. F. 3 b* 126 Claremont ave.  
*Herreshoff, A. F. p*  
 1415 Sedgwick ave  
*Herrick, H. E. 1 l* Lawrence, L. I.  
 230 Palisade ave., W. Hoboken  
*Herring, A. C. 3 c* 550 W. 114  
*Herring, H. C., Jr. ph* 600 W. 122  
*Herring, J. W. 3 c* 147 W. 82  
*Herrlich, W. L. 2 l* 443 E. 239  
*Herrmann, A. ph* 234 E. 72  
*Herrmann, H. 4 t* 58 E. 124  
*Herrmann, G. J. 2 c* 22 E. 95  
*Herson, O. 2 c* 756 Hewitt Pl.  
*Hertz, L. gr t* 1480 Bryant ave.  
*Hertz, N. C. 3 s* 403 W. 115  
*Herzberg, M. J. ph*  
 20 Ridgewood ave., Newark  
*Herzfeld, A. J. 2 b* 44 W. 126  
*Hess, A. H. 3 t* 519 W. 121  
*Hess, E. 2 b* 34 W. 120  
*Hess, K. F. 4 s*  
 200 Schenectady ave., Bklyn.  
*Hess, R. J. Sp M b*  
 956 Madison ave.  
*Hessberg, M. S. 4 b* 55 W. 89  
*Hesse, W. 4 j* 1643 E. 13, Bklyn.  
*Hesselbach, H. V. 2 t* Cooper Union  
*Hetzel, W. B. 4 m* 231 W. 69  
*Hewitt, M. N. 3 t* Whittier  
*Heyman, M. A. 2 s* 60 E. 93  
*Heyn, O. P., Jr. 1 l* Livingston  
*Hickey, E. T. 1 c* Hartley  
*Hickey, M. 4 t* 54 Morningside Dr.  
*Hickok, M. E. 3 t* Whittier  
*Hickox, F. C. 4 t* 507 W. 121  
*Hicks, C. K. pl* 400 Manhattan ave.  
*Hiesel, J. 3 t* P. S. 46 Man.  
*Higbid, E. J. 3 t*  
 341 Graham ave., Paterson  
*Higgins, G. H. 2 c* Hartley  
*Hilborn, D. D. 1 c* 22 W. 96  
*Hilborn, R. 4 b* 415 Riverside Dr.  
*Hildebrand, A. S. f a* Livingston  
*Hildebrand, M. A. 4 b*  
 442 Stockholm, Bklyn.  
*Hildreth, C. L. 2 s* Hartley  
*Hildreth, L. J. 1 c* Hartley  
*Hilker, H. W. D. gr t* Wadleigh H. S.  
 323 W. 87  
*Hill, D. 3 l*  
*Hill, D. 1. 3 t* Whittier  
*Hill, H. G. 4 t* 37 E. 71  
*Hill, H. M., Jr. 1 s* Hartley  
*Hill, J. M. ph* 620 W. 116  
*Hill, L. B. gr t* 510 W. 124  
*Hill, L. S. p* 165 W. 97  
*Hill, W. D. 3 c* 612 W. 122  
*Hillas, M. 3 b*  
 250 Palisade ave., W. Hoboken  
*Hillas, M. 1 b*  
 230 Palisade ave., W. Hoboken  
*Hillas, R. A. 4 c* 565 W. 113  
*Hilldring, J. H. 1 c* 429 W. 117  
*Hillyar, E. A. 3 t* 420 W. 118  
*Hilton, V. 1 t*  
 12 Schuyler Ct., Bayonne  
*Hinckley, A. C. ph* 401 W. 118  
*Hines, J. C. p* Livingston  
*Hinohara, Z. ph* 600 W. 122  
*Hintze, F. F. p*  
*Hirsch, I. 2 s* 528 W. 123  
*Hirsch, M. S. 2 l* 56 E. 93  
*Hirschfeld, L. f a* 418 E. 58  
*Hirshcopf, P. 3 c*  
 741 De Kalb ave., Bklyn.  
*Hirshleifer, L. J. p 13* Varet, Bklyn.  
*Hirt, E. L. 4 s* 536 W. 114  
*Hoagland, N. C. phar* 154 W. 105  
*Hobart, C. E. 3 l* 501 W. 123  
*Hobart, I. M. gr t* Whittier  
*Hobbs, R. J. M. 2 l* Livingston  
*Hochderffer, Mrs. M. J. ph*  
 Harbor Haven, Jamaica, L. I.  
*Hochenberg, M. 1 l* 8 W. 119  
*Hochschild, G. 2 b*  
 565 West End ave.  
*Hochschild, H. K. 1 s*  
 565 West End ave.  
*Hochstein, L. 4 c* 51 E. 7  
*Hodenpyl, G. H., Jr. f a*  
*Hoey, M. A. 3 b* Whittier  
*Hodges, M. L. ph* 435 W. 119  
*Hoff, K. G. f a* 424 W. 115  
*Hoffman, G. L. 3 t*  
 55 Davis ave., New Rochelle  
*Hoffman, M. f a* 58 E. 79  
*Hoffman, M. gr t* 1143 Vyse ave.  
*Hoffman, M. D. 2 c*  
 158a Quitman, Newark  
*Hoffman, M. H. ph* 531 W. 123  
*Hoffman, P. E. pl* 307 W. 137  
*Hoffman, S. 1 s* 434 Riverside Dr.  
*Hoffmann, A. S. 1 c* 211 E. 18  
*Hoffmann, C. J. ph*  
 1027 So. Boulevard  
*Hofheimer, G. M. f a* 123 W. 126



<i>Hogan, O. R.</i> 2 b	<i>Whittier</i>	<i>Horn, E.</i> gr t	<i>Hartley</i>
<i>Hoge, M. A.</i> p	509 W. 121	<i>Hornstein, M.</i> 4 m	444 E. 146
<i>Hoisholt, A. B.</i> 1 l	<i>Hartley</i>	<i>Horowitz, B.</i> p	2 E. 113
<i>Hoke, C. M.</i> ph	<i>Palisade</i>	<i>Horowitz, R. N.</i> 2 b	211 W. 128
<i>Hoke, K. J.</i> gr t	436 W. 116	<i>Horton, J. A.</i> 2 s	203 W. 106
<i>Holden, A. C.</i> f a 323	Riverside Dr.	<i>Horton, M. McK.</i> ph	Nyack
<i>Holden, H. D.</i> 3 l	Mamaroneck	<i>Horton, W. S.</i> nm c	200 W. 100
<i>Holden, T. N., Jr.</i> 4 c		<i>Horwitz, A. W.</i> 4 t	315 W. 99
	237 Quincy, Bklyn.	<i>Hosmer, H.</i> gr t	
<i>Holinger, S. C.</i> 3 t	<i>Whittier</i>		565 Warren, Newark
<i>Hollingshead, G. G.</i> pl		<i>Hostetter, M. G.</i> 3 t	414 W. 120
	30 Gould ave., Newark	<i>Hotson, V. D.</i> 2 b	
<i>Hollingsworth, L. M.</i> 4 t			42 Linden ave., Pelham
	Scotch Plains	<i>Hough, H. D.</i> ph	
<i>Hollington, K. T.</i> 4 j	554 W. 114		70 Morningside Dr.
<i>Hollingsworth, Mrs. L. S.</i> gr t		<i>Houghton, E. G.</i> 4 b	<i>Brooks</i>
	510 W. 124	<i>Houghton, G. S.</i> 4 m	359 W. 57
<i>Hollis, I. M.</i> pl	310 W. 115	<i>Houghton, L. I.</i> 2 c	531 W. 155
<i>Hollmann, R. F.</i> 4 c		<i>Houghton, S. P.</i> 4 c	565 W. 113
	488 Monroe, Bklyn.	<i>House, N. C.</i> 4 c	549 W. 163
<i>Holloway, E.</i> gr t	<i>Whittier</i>	<i>Houriham, D. B.</i> pl	
<i>Holman, R. F.</i> 3 t	<i>Whittier</i>		90 Morningside Dr.
<i>Holmes, H. H.</i> gr t	<i>Livingston</i>	<i>Hovey, H. M.</i> gr t	
<i>Holt, A. E.</i> 1 t 1264	Amsterdam ave.		Wadleigh High School
<i>Holt, E. L. M.</i> f a		<i>Howard, A. E.</i> 3 t	419 W. 119
	132 Locust Hill ave., Yonkers	<i>Howard, C. M.</i> ph	
<i>Holt, E. P.</i> 4 t	327 W. 101		88 Morningside Dr.
<i>Holthusen, H. F.</i> 1 c	684 Madison	<i>Howard, F.</i> pl	27 W. 99
<i>Holz, M. B.</i> 3 t	345 W. 70	<i>Howard, J. E.</i> 2 s	
<i>Holz, S. P.</i> 3 t	345 W. 70	<i>Howard, J. P.</i> gr t	248 W. 129
<i>Holzinger, J. J.</i> 1 c		<i>Howard, M. E.</i> gr t	
	109 Onderdonk ave., Bklyn.		52 De Forest ave., Summit
<i>Holzman, M.</i> 4 c	506 W. 134	<i>Howarth, W.</i> 1 c	<i>Hartley</i>
<i>Holzman, P. J.</i> 4 s		<i>Howe, J. B.</i> 1 c	512 W. 122
<i>Holzwasser, F.</i> 3 b	230 W. 99	<i>Howe, L.</i> W. 2 b	
<i>Hornlet, H.</i> 3 c	235 W. 108		29 First ave., Mt. Vernon
<i>Hood, E. M.</i> 3 t	<i>Whittier</i>	<i>Howell, F. M.</i> 2 b	
<i>Hood, G. G.</i> gr t	<i>Whittier</i>		730 E. 26, Paterson
<i>Hooker, B. H.</i> ph	519 W. 121	<i>Howell, G. d' A. Y.</i> 1 t	
<i>Hooper, W. T.</i> ph	175 Ninth ave.		9 Arlington Pl., Bklyn.
<i>Hoover, A. L.</i> 2 t		<i>Howes, R. C.</i> 3 t	<i>Whittier</i>
	161 Willoughby ave., Bklyn.	<i>Howitt, L. R.</i> 1 j	
<i>Hoover, E. D.</i> 3 t	417 W. 120	<i>Howry, H. H.</i> 2 s	616 W. 113
<i>Hoover, M. M.</i> ph	417 W. 120	<i>Hoyem, O.</i> nm j	616 W. 113
<i>Hope, D. M.</i> 3 t	<i>Whittier</i>	<i>Hoyt, C. C.</i> 2 l	435 W. 117
<i>Hope, I. M.</i> p	8 E. 126	<i>Hoyt, D. C.</i> 4 s	<i>Livingston</i>
<i>Hopkins, H. J.</i> 3 t	416 W. 122	<i>Hoyt, E. M.</i> 1 t	<i>Whittier</i>
<i>Hopkins, H. P.</i> f a	<i>Hartley</i>	<i>Hubbard, B.</i> 3 c	510 W. 124
<i>Hopkins, M.</i> nm t	521 W. 123	<i>Hubbard, D. G.</i> 4 s	131 W. 94
<i>Hopkins, M. E.</i> 4 t	135 E. 52	<i>Hubbard, E. H.</i> 1 b	<i>Brooks</i>
<i>Hopkins, P. C.</i> 1 l	<i>Livingston</i>	<i>Hubbard, G. L.</i> 2 b 109-14, Flushing	
<i>Hopson, E. F.</i> pl	501 W. 121	<i>Hubbard, J. S.</i> 2 c	131 W. 94
<i>Hardison, R. M.</i> f a	430 W. 118	<i>Hubbard, M.</i> 1 t	131 W. 94
<i>Horkheimer, P.</i> 4 b		<i>Hubert, E. S.</i> 4 t	
	437 West End ave.		361 So. Fourth ave., Mt. Vernon

- Huberty, M. A. 4 t  
                                     43 Linden, Bklyn.  
 Hudders, E. L. 1 t                      Whittier  
 Hudes, H. L. phar                      827 Union ave.  
 Hudson, E. M. 1 m  
 Huene, A. H. ph  
                                     128 Weirfield, Bklyn.  
 Huesmann, L. B. fa  
                                     206 Garden, Hoboken  
 Huff, M. M. 4 t                      Whittier  
 Huff, S. A. 3 t  
                                     767 Eastern P'kway, Bklyn.  
 Huggins, W. N. 3 t                      252 W. 53  
 Hughes, H. H. ph                      Livingston  
 Hughes, M. F. 1 b  
                                     39 Orange, Bloomfield  
 Huguenin, C. ph                      430 W. 119  
 Huiskamp, J. E. nm c  
                                     Hotel Seville  
 Huiskamp, P. M. Sp b  
                                     420 Riverside Dr.  
 Hull, M. R. 4 t                      Whittier  
 Hulskamp, M. V. 1 b                      544 W. 157  
 Hume, W. F. 1 m                      333 W. 58  
 Humiston, M. G. 1 j                      12 E. 38  
 Humphreys, L. G. 3 t                      Whittier  
 Humphreys, M. R. 1 t  
                                     446 Manhattan ave.  
 Hungerford, E. L. 3 t                      Whittier  
 Hunley, E. V. 2 b                      526 W. 173  
 Hunt, M. E. 3 t                      88 Morningside Dr.  
 Hunter, F. B. 4 t                      515 W. 124  
 Hunter, S. A. pl                      600 W. 122  
 Huntington, J. 1 t  
                                     16 Lawrence, Yonkers  
 Huntington, K. E. 1 b  
                                     331 So. First ave., Mt. Vernon  
 Huntley, Mrs. W. A. nm t  
                                     323 E. 19, Bklyn.  
 Hurd, R. A. 2 m                      133 Lenox ave.  
 Hurlbut, C. A. 3 t                      415 W. 118  
 Hurlbutt, M. E. p                      509 W. 121  
 Huser, T. E. 1 l                      Livingston  
 Husing, M. A. 2 t  
                                     1285 Pacific, Bklyn.  
 Hussakof, E. 3 t                      148 E. B'way  
 Huston, Mrs. R. B. t  
                                     1284 Amsterdam ave.  
 Hutchinson, A. M. 4 t                      362 W. 121  
 Hutchison, T. R. 3 m                      332 W. 58  
 Hutchinson, R. M. nm t                      362 W. 121  
 Hutton, A. D. 1 t  
                                     151 N. 21, E. Orange  
 Hutton, H. S. 1 s  
 Hutton, S. E. p                      13 W. 103  
 Huyler, W. C. 2 c  
 Huyssoon, M. 4 t                      641 E. 26  
 Hyde, E. S. 4 t                      88 Morningside Dr.  
 Hyde, I. ph                      157 Remsen, Bklyn.  
 Hyde, R. R. p                      542 W. 124  
 Hyde, R. W. 4 s                      611 W. 137  
 Hyman, H. T. 2 c                      515 W. 110  
 Hyman, J. 2 m                      62 E. 90  
 Hyman, J. C. pl                      11 W. 112  
 Hyman, M. 4 c  
                                     22 Mt. Morris Pk., W.  
 Iaason, A. H. 2 m  
                                     729a Macon, Bklyn.  
 Ide, J. J. fa                      1128 Madison ave.  
 Ilsen, W. R. 2 c  
                                     52 Morningside ave.  
 Immel, W. C. gr t  
                                     128 S. Fulton ave., Mt. Vernon  
 Immerman, H. T. 4 s                      556 W. 140  
 Ing, Z. T. gr t                      Edgewater  
 Ingalls, F. W. 1 c                      153 W. 80  
 Ingersoll, M. G. 4 t                      519 W. 121  
 Ingram, D. M. nm l                      Hartley  
 Innis, F. V. 3 t                      Whittier  
 Iorio, E. F. 4 m                      2334 Pacific, Bklyn.  
 Ireland, I. B. 4 b  
                                     94 Saratoga ave., Yonkers  
 Irish, C. G. 3 m                      506 W. 111  
 Irvin, K. F. phar                      Livingston  
 Irvine, R. S. 3 m                      575 W. 183  
 Irwin, E. C. 4 t                      Whittier  
 Irwin, M. G. 4 t  
                                     14 Grand Pl., Arlington  
 Irwin, R. G. 3 t                      Whittier  
 Isaacs, H. J. 2 c                      1325 Madison ave.  
 Isabel, E. C. gr t                      601 W. 113  
 Isbell, D. C. 2 l                      540 W. 165  
 Israel, A. H. 4 s                      74 W. 92  
 Isselhardt, L. A. 1 c                      854 W. 181  
 Iverson, M. C. 2 s                      447-44, Bklyn.  
 Izumi, A. I. pl                      327 W. 108  
 Jabine, L. 2 c  
                                     9 Morris Crescent, Yonkers  
 Jabine, T. 4 s  
                                     9 Morris Crescent, Yonkers  
 Jackson, F. H. p                      Whittier  
 Jackson, L. 3 t                      West Summit  
 Jackson, L. M. 2 b  
                                     505 Clinton ave., Bklyn.  
 Jackson, L. W. 1 c                      Livingston  
 Jackson, M. V. nm b                      523 W. 121  
 Jackson, S. L. 2 l                      118 W. 57  
 Jacob, L. M. gr t  
                                     Hollis Court, Queens, L. I.  
 Jacobs, A. W. 2 m                      950 ave. St. John

- Jacobs, E. R. 4 l 7 W. 114  
 Jacobs, H. H. 4 s 20 Morningside ave.  
 Jacobs, H. L. 1 s 132a Sumner ave., Bklyn.  
 Jacobs, J. p 218 Henry  
 Jacobs, M. phar 313 Hamilton ave., Paterson  
 Jacobs, M. nm t 464 ave. C., Bayonne  
 Jacobsen, B. M. 2 b 182 Kearney ave., Perth Amboy  
 Jacobsen, H. A. 4 t 31 Palisade ave., W. Hoboken  
 Jacobson, D. L. 2 c 578 Grand, Jersey City  
 Jacobson, F. R. 1 b Brooks  
 Jacobson, J. E. 1 l Livingston  
 Jacobson, M. F. 3 b 308 W. 73  
 Jacoby, J. H. 1 b 285 Central Pk., W.  
 Jacques, H. C. 2 l 539 Manhattan ave.  
 Jaeger, L. C. f a 140 Ridgewood ave., Newark  
 Jaffe, J. K. pl 129 W. 76  
 Jaffe, L. R. pl 253 Madison  
 Jagendorf, M. A. ph 160 E. 109  
 Jahn, L. D. 3 t 400 W. 118  
 Jakobi, Mrs. P. O. pl 31 W. 11  
 James, F. M. 3 t 136 McLean ave., Yonkers  
 James, M. L. 3 t Whittier  
 James, M. S. 3 t Whittier  
 Jamison, A. C. 2 b 257 Clermont ave., Bklyn.  
 Janney, S. M., Jr. 1 j 102 W. 93  
 Jansen, W. gr t 2233 Belmont ave.  
 Jaquith, H. C. ph 600 W. 122  
 Jaques, S. 4 c 44 Morningside Dr.  
 Jardine, B. W. 1 t Whittier  
 Jareckie, E. A. 3 s 601 W. 113  
 Jarvis, E. 2 t 45 Hamilton ave., Yonkers  
 Jauss, R. B. 1 s 176 W. 82  
 Jeanneret, A. 2 s 565 W. 113  
 Jedlicka, F. C. 1 s Suydam Pl., Elmhurst, L. I.  
 Jefferson, C. F. 3 l 121 W. 85  
 Jeffrey, L. MacL. 3 b Brooks  
 Jenkins, A. U. 4 t 500 W. 122  
 Jenkins, H. H. 2 b Brooks  
 Jennings, C. M. ph 501 W. 121  
 Jennings, E. A. 4 m 561 W. 180  
 Jensen, E. L. 3 c Hartley  
 Jensen, J. p 25 Convent ave.  
 Jerome, W. T., Jr. 1 l 611 Cathedral P'kway  
 Jerskey, A. 2 m 875 Driggs ave., Bklyn.  
 Jervey, H. W. 3 l Livingston  
 Jesser, F. M. gr t Central ave., Richmond Hill  
 Jessup, D. 4 t Forest Hills Gardens, L. I.  
 Jeter, B. H. 3 t 423 W. 118  
 Jewett, F. W. 2 c 14 Morningside ave.  
 Jewell, M. ph 126 Willoughby ave., Bklyn.  
 Jewell, R. H. 2 l 417 W. 118  
 Jewell, T. B., Jr. 2 l 417 W. 118  
 Jimenis, E. A. 1 c 268 W. 72  
 Joffé, B. ph 501 W. 122  
 Johanson, A. M. 1 c 730 Cranford ave.  
 John, G. H. 1 s 2702 Bainbridge ave.  
 Johnson, A. A. 3 c 315 W. 121  
 Johnson, A. G. 4 t Hartley  
 Johnson, E. L. 3 t 45 N. Midland ave., Arlington  
 Johnson, G. M. 4 t 233 Macon, Bklyn.  
 Johnson, H. B. 2 c 327 Lincoln, Flushing  
 Johnson, H. F. 2 m 307 W. 70  
 Johnson, H. K. 4 t 1655-59, Bklyn.  
 Johnson, J. L. 3 m 345 W. 57  
 Johnson, J. W. 2 s 601 W. 148  
 Johnson, L. I. 3 t 3100 B'way  
 Johnson, L. P. ph 430 W. 118  
 Johnson, M. H. ph 509 W. 121  
 Johnson, N. R. 4 c 619 W. 113  
 Johnson, O. A. 4 t 219 W. 134  
 Johnson, P. B. 1 m 130 W. 104  
 Johnson, R. A. 4 t Whittier  
 Johnson, R. K. 2 m 164 Waverly Pl.  
 Johnson, S. C. 1 t 601 W. 148  
 Johnson, S. T., Jr. 1 s Croton-on-Hudson  
 Johnson, V. E. 1 t 17 W. 132  
 Johnston, K. 4 t 8 Brunswick Rd., Montclair  
 Johnston, H. J. 1 t 8 Brunswick Rd., Montclair  
 Johnston, W. S. 2 c 542 W. 112  
 Jonas, E. H. 4 t 430 W. 118  
 Jonas, S. S. B. 1 b 515 Cathedral P'kway  
 Jones, B. L. 4 m 356 W. 57  
 Jones, E. H. 4 t 430 W. 118  
 Jones, F. L. 4 b 2517 Marion ave.





- Kelley, E. C.* 2 b  
20 Sidney Pl., Bklyn.
- Kelley, F. A.* 3 t  
34 Lincoln, Jersey City
- Kelley, M. F.* 4 b Brooks
- Kelley, R. J.* 1 l
- Kelley, R. J., Jr.* 1 l 419 W. 118
- Kelley, T. L.* gr t 537 W. 123
- Kellner, M. J.* 1 b  
1538 Union, Bklyn.
- Kellogg, S. L.* ph 420 W. 119
- Kellogg, W. A.* 4 m 48 W. 51
- Kellogg, W. R.* 3 l Livingston
- Kells, L. M.* p 524 W. 123
- Kelly, Mrs. E.* 3 t 408 W. 115
- Kelly, E. G.* 4 t 135 Hamilton Pl.
- Kelly, E. M.* 3 c 168 Wilson, Bklyn.
- Kelly, F. J.* gr t 519 W. 122
- Kelly, J. E.* 1 s  
30 Washington Sq., W.
- Kelly, J. P.* p 2163 Gleason ave.
- Kelly, L. A., Jr.* p 225 W. 135
- Kelly, L. F.* 2 b Brooks
- Kelly, M. K.* 1 b Brooks
- Kemp, J. T.* 3 s 211 W. 139
- Kemp, P. K.* 2 c 211 W. 139
- Kemp, W. C. B. K.* pl Livingston
- Kemp, W. V. A.* 3 s  
Hotel San Remo
- Kempf, N. W.* 1 s  
114 Bleecker, Newark
- Kempton, I. T.* 2 b  
9 Van Cortlandt Pk. ave., Yonkers
- Kempvance, J. C., Jr.* 4 c Hartley
- Kendall, B. W.* p Livingston
- Kennedy, F. A.* 4 t  
469 McDonough, Bklyn.
- Kennedy, M. A.* 3 t 162 E. 79
- Kennedy, P. A.* 3 t  
137 Garfield Pl., Bklyn.
- Kenny, J. J.* 2 m 39 W. 61
- Kenny, M. E.* 3 b  
214 St. Mark's ave., Bklyn.
- Kent, S. G.* 2 l Summit
- Kent, W. R.* 1 l Livingston
- Kenway, F. L.* 3 t Whittier
- Kenyon, A.* 3 t Whittier
- Kenyon, H. H.* 3 t Poland
- Kenyon, R. H.* 1 l Hartley
- Kenyon, T. S.* 2 l 321 W. 82
- Keough, A. C.* 2 l  
974 St. Mark's ave., Bklyn.
- Kerbeck, J. L.* 4 t  
313 Prospect ave., L. I. City
- Kerby, C. E.* 2 b Brooks
- Kerby, P. C.* 1 c 506 W. 113
- Kerley, J. H.* 3 m  
287 Gates ave., Bklyn.
- Kerley, M. E.* 3 t Whittier
- Kerr, D. R.* 3 c 2822 ave. K., Bklyn.
- Kersey, P. J.* 4 t Livingston
- Kerwin, J. M.* gr t  
Hasbrouck Heights
- Kessel, T.* 3 t 1473 Pacific, Bklyn.
- Kessler, G. W.* pl Livingston
- Ketcham, M. E.* 4 t Whittier
- Keune, E.* 4 t Whittier
- Kieffer, N. A.* 3 t 414 W. 120
- Kiefer, K. H.* 3 s 540 W. 113
- Kiendl, T., Jr.* 3 l 540 W. 113
- Kilbourne, K. A.* 1 s Hartley
- Kilenyi, E.* f a 48 E. 88
- Killough, W. H. D.* 1 c 513-4, Bklyn.
- Kimm, W. I.* 2 c Hartley
- Kimmick, K. G.* 3 t 417 W. 120
- Kinch, D.* 4 b 74 W. 69
- King, E. B.* ph 559 W. 164
- King, E. D.* 4 c  
137 Garfield Pl., Bklyn.
- King, F.* 1 s 326 W. 107
- King, G. B.* ph 600 W. 122
- King, H. B.* 2 s 618 W. 113
- King, L., R.* 3 l 20 E. 84
- King, M. B.* ph  
798 Valley Rd., Upper Montclair
- King, M. C.* 1 b 1465-51, Bklyn.
- King, P. C.* pl 600 W. 122
- King, R. M.* 4 c 351 Adelphi, Bklyn.
- Kingsland, Mrs. G. S.* ph  
511 W. 112
- Kinney, M.* 4 c 50 W. 74
- Kinney, M.* ph 415 W. 118
- Kinney, J. A.* 4 c 164 W. 74
- Kinnison, E. J.* gr t  
2180 Richmond Ter.,  
Port Richmond, S. I.
- Kinoy, A.* 4 t 48 So. 10, Bklyn
- Kirch, W. L.* 1 s  
309 Albemarle Rd., Bklyn.
- Kirchwey, F.* 2 b 800 Riverside Dr.
- Kirchgraber, E. H.* 4 s Hartley
- Kirk, D. W.* 4 t  
55 Elm ave., Mt. Vernon
- Kirlin, R.* nm c 22 E. 66
- Kirschstein, J.* 3 s 222 Henry
- Kirschstein, M.* 3 s 222 Henry
- Kirschstein, M.* 1 l 222 Henry
- Kirwan, H. M.* 1 b 83 Hamilton Pl.
- Kirwan, J. J.* 4 t Hartley
- Kisch, E. H.* 1 t 14 Morningside ave.
- Kissel, J. T.* Sp nm b 12 E. 55



- Kitchen, V. C. 1 j  
     94 Prospect, E. Orange  
 Kite, J. M. 3 t 1264 Amsterdam ave.  
 Kittredge, E. A. p 417 W. 121  
 Kivlen, M. D. pl 22 St. Nicholas Pl.  
 Klausner, D. M. 1 c  
     401 Hoboken ave., Jersey City  
 Klein, M. S. nm t 421 W. 118  
 Kleinman, P. gr t  
     339 Pennsylvania ave., Bklyn.  
 Klein, A. J. pl 421 W. 118  
 Klein, C. L. gr t 3602 Third ave.  
 Klein, E. 4 c 418 E. 5  
 Klein, H. L. phar 165 Suffolk  
 Klein, I. 1 c 3905 Third ave.  
 Klein, K. F. 2 s 206 W. 148  
 Klein, L. ph 57-7  
 Klein, M. 1 s 86 ave. A.  
 Kling, D. C. 4 t  
     480 McDonough, Bklyn.  
 Klingenstein, P. H. 2 c 136 E. 79  
 Klopfer, E. J. 1 b 316 W. 93  
 Kloster, W. J. 4 c  
     215 St. John's Pl., Bklyn.  
 Klugescheid, R. C. 3 l 170 W. 89  
 Klugescheid, W. P. 1 s 170 W. 89  
 Knapp, A. M. pl  
     621 No. Lefferts ave.,  
     Richmond Hill  
 Knapp, C. F. 1 t Whittier  
 Knapp, C. M. 3 c 627 W. 113  
 Knapp, H. E. 1 t Buchanan  
 Knappe, A. H. f a 321 W. 55  
 Knauth, A. W. 1 l 302 W. 76  
 Knight, E. W. gr t Livingston  
 Knight, F. S. 3 l 211 W. 127  
 Knight, W. A. 4 m 600 W. 122  
 Knopf, S. H. 3 s 1416 Stebbins ave.  
 Knox, W. J., Jr. nm c 612 W. 112  
 Knuth, H. G. 3 c Hartley  
 Kobayashi, R. Y. pl 420 W. 121  
 Kocher, H. A. K. 3 t  
     33 Summer, Port Chester  
 Koechl, O. R. f a  
     47 Montgomery Pl., Bklyn.  
 Kodak, S. J. f a  
     61 Herriott, Yonkers  
 Koehler, H. R. p  
     384 Ackerman ave., Ridgewood  
 Koenig, E. H. 4 s 429 W. 117  
 Koenig, L. 3 l 80 W. 12  
 Koenig, Mrs. S. H. 4 t 27 E. 81  
 Kohlbusch, A. H. 4 s 431 W. 117  
 Kohler, F. D. nm l 390 E. 17, Bklyn.  
 Kohn, C. 1 b 107 W. 120  
 Kojima, S. ph 175 Ninth ave.
- Kolb, M. G. 4 t  
 Kolinsky, P. C. 2 l  
 Koller, M. A. nm s 557 W. 140  
 Kominz, J. S. 3 m 2 E. 115  
 Konarski, M. M. 3 c 514 E. 76  
 Kong, A. F. G. 1 b 419 W. 110  
 Koon, J. I. 3 j 428 W. 121  
 Korn, M. H. 4 s  
     98 Elm ave., Hackensack  
 Korn, S. S. 3 l 238 E. 68  
 Kornsand, E. S. 1 c 1229 Park ave.  
 Koss, I. G. pl 628 West End ave.  
 Köster, A. nm c 110 E. 126  
 Kottek, H. C. 2 c 17 W. 70  
 Koukol, C. T. 3 s 502 E. 79  
 Krakow, M. H. 3 m 67 E. 97  
 Kramer, B. 2 m 1459 Madison ave.  
 Kramer, B. J. p 232 Henry  
 Kramer, K. phar 369 W. 48  
 Krandle, H. M. 1 c  
     435 Sackman, Bklyn.  
 Kranz, S. 4 t 73 Ridge  
 Kraus, W. F. 2 s 508 E. 89  
 Krause, E. 2 b 15 E. 87  
 Kreamer, A. H. 3 j  
     183 Kearney, Paterson  
 Krefeld, W. J. 3 s 74 W. 102  
 Kreiner, H. P. ph  
     224 Broad, Newark  
 Kreiner, L. M. ph  
     224 Broad, Newark  
 Krier, D. A. 2 b  
     267 Fenimore, Bklyn.  
 Krinsky, H. J. P. 2 b  
     88 Elliott ave., Yonkers  
 Krolfifer, J. F. 4 c  
     1293 Amsterdam ave.  
 Kroll, A. 3 c 318 E. 84  
 Kroll, C. 4 s 318 E. 84  
 Krug, C. 1 s 830 Park ave.  
 Krumbeck, W. gr t  
     91½ Ross, Bklyn.  
 Kuang, Y. C. p 554 W. 114  
 Kubie, D. L. 3 t  
     Wave Crest, Far Rockaway  
 Kuchar, J. J. 1 s 341 E. 73  
     572 Union, Union  
 Kuhn, I. 3 c 1189 Boston Rd.  
 Kuhn, S. 2 s 209 W. 140  
 Kuki, I. gr t 90 Morningside Dr.  
 Kunkel, L. O. p  
 Kunstler, M. B. 4 m  
     465 Central Pk., W.  
 Kunzman, I. 2 l  
 Kuo, P. W. gr t 501 W. 121  
 Kupfer, H. 1 t 230 W. 97

Kupfer, M. P. 1 c 71 E. 96  
 Kupfer, W. S. 4 c 20 Greene  
 Kuperstein, J. T. 3 s 8661 Bay 36, Bensonhurst  
*Kürlander, A. 4 t 351 Lenox ave.*  
 Kürschner, H. H. 1 s 174 W. 107  
*Kurtz, A. T. 3 t 203 E. 27*  
 Kurtz, E. gr t 419 W. 115  
 Kurz, H. ph 507 W. 113  
 Kurz, J. B. 4 s 105 Throop ave., Bklyn.  
 Kurz, M. ph 16 E. 7  
*Kurz, Mrs. P. W. 4 t 501 W. 121*  
 Kuschke, J. L. ph 558 W. 113  
*Kuttner, A. G. 2 b 501 W. 113*  
  
*Lachmann, H. R. 2 b 420 W. 121*  
 La Corte, S. F. 3 c Hartley  
 Lacy, P. S. fa 411 W. 115  
 Ladd, W. S. 2 m Livingston  
 La Dow, S. V. 4 c 610 W. 116  
*La Ganke, F. M. 3 t 509 W. 121*  
 Leggett, T. H., Jr. 1 m Hartley  
 Laguardia, C. J. B. 1 c 371 Pleasant ave.  
 Laguardia, G. 3 c 371 Pleasant ave.  
 Lahey, W. S. 4 c 520 Summit ave., Jersey City  
*Lake, A. L. 4 t 419 W. 118*  
 Lake, D. B. p 419 W. 121  
 Lakeman, C. E. pl 40 W. 12  
 Lamb, H. A. 1 c 356 W. 22  
*Lambert, E. G. 2 b 225 Rich ave., Mt. Vernon*  
 Lambert, N. D. 1 s 295 Wyona, Bklyn.  
 Lambert, P. C. ph 621 W. 135  
*Lamport, A. gr t 1352 Clinton ave.*  
 Lamprecht, S. P. ph 600 W. 122  
 Landers, L. L. gr t 2992 Orchard ave., Richmond Hill  
*Landes, M. W. ph 892 West End ave.*  
 Landis, W. B. 2 l 633 W. 115  
 Landman, E. S. 3 s 242 W. 104  
*Landreth, M. E. 3 t Whittier*  
*Landrine, M. A. 1 t Maywood*  
 Landsman, C. M. p 547 W. 157  
 Landy, G. pl 281 E. B'way  
 Landy, J. A. 3 m 2948 Third ave.  
*Lane, A. E. 3 t Whittier*  
*Lane, E. 4 t 100 Cathedral P'kway*  
 Lane, L. B. 1 s 540 W. 113  
 Lane, W. K. gr t 51 Seventh ave., Bklyn.  
 Lange, W. 1 s  
*Langdon, A. C. 1 t Whittier*

*Langfeld, C. 4 t Whittier*  
*Langfeld, S. H. 1 t Whittier*  
 Langland, H. C. 3 l 541 W. 124  
 Langley, R. H. 4 s 523 W. 122  
*Lanier, E. R. gr t Whittier*  
 Lapidus, A. 3 s 229 W. 121  
 La Pierre, L. S. fa 1090 Bushwick ave., Bklyn.  
 Laplume, J. 1 s 424 Gates ave., Bklyn.  
 Lapolla, G. M. ph 501 E. 118  
*Larson, B. S. 3 t Whittier*  
 Larson, H. M., Jr. 3 m 240 Rutland Rd., Bklyn.  
 Lasell, H. S. 4 t Livingston  
 Lasher, J. K., Jr. 3 c 627 W. 115  
 Laskowitz, B. D. fa 7 Rankin, Newark  
 Lasher, W. W. 2 m 827 Lexington ave.  
 Latenser, F. J. fa 429 W. 117  
*Latham, A. M. 3 t 617 W. 138*  
*Latham, E. B. 3 t 407 Washington ave., Bklyn.*  
*Latham, H. M. gr t 140a Lexington ave., Bklyn.*  
*Latham, M. L. p 501 W. 124*  
*Latham, M. W. ph 401 W. 118*  
*Lathrop, D. P. 4 t Whittier*  
 Lathrop, J. E. 4 s 584 Warburton ave., Yonkers  
 Lathrop, T. S. 3 s 618 W. 113  
*Latzke, P. R. 4 b 501 W. 111*  
 Lau, R. F. ph 175 Ninth ave.  
 Laubach, F. C. ph 600 W. 122  
 Laube, H. D. pl 417 W. 121  
 Lauber, A. W. pl Livingston  
 Lauber, H. C. 2 s 608 W. 113  
 Laubscher, O. P. 2 s 512 W. 122  
*Langfeld, C. H. 4 t Whittier*  
 Laughton, W. S. p 11 W. 126  
 Laurier, C. 2 c Hartley  
*Lauterbach, B. 1 t 501 W. 120*  
 Lavery, P. E. 2 l 429 W. 117  
*Law, C. E. 3 t 444 So. Second ave., Mt. Vernon*  
*Law, L. Sp m b Brooks*  
*Law, M. F. gr t 700 W. 178*  
*Law, M. R. 1 b 444 So. Second ave., Mt. Vernon*  
*Lawler, M. H. 3 b 569 W. 182*  
*Lawrence, E. M. 1 t 46 Wardell, Astoria*  
 Lawrence, J. S. pl Livingston  
 Lawton, M. F. pl 2255-83, Bklyn.  
 Lawton, W. A. 3 t 2255-83, Bklyn.

- Lazarus, A. 3 *c*  
     293 Knickerbocker ave., Bklyn.  
 Leary, W. D. nm *j* 37 W. 97  
 Lebendeger, J. *ph* 155 Orchard  
 Lee, C. E. *gr t* 136 E. 22  
 Lee, E. 4 *t* Whittier  
 Lee, E. A. 4 *t* 175 Claremont ave.  
 Lee, Mrs. E. A. nm *t* 175 Claremont ave.  
 Lee, J. C., Jr. 1 *c* 248 W. 127  
 Lee, L. V. 3 *s* 616 W. 113  
 Lee, M. T. *p* 66 W. 95  
 Lee, P. R. *pl* 105 E. 22  
 Lee, T. L. 2 *s* Hartley  
 Lee, Y. W. 1 *c* 219 W. 125  
 Leet, H. I. 3 *t* 90 Morningside Dr.  
 Leftwich, B. C. 4 *t* Whittier  
 Legañoa, E. 1 *s* 2684 B'way  
 Legate, A. F. 2 *t* 687 E. 26, Paterson  
 Leggett, T. H., Jr. 3 *c* Hartley  
 Lehman, E. 2 *c* 236 W. 138  
 Lehmann, M. 3 *t* Whittier  
 Lehrer, I. D. 4 *t* 1489 St. Mark's ave., Bklyn.  
 Leighton, F. 4 *t* 419 W. 118  
 Leiner, J. 3 *s* 155 Audubon ave.  
 Leistener, I. *ph* 652 Manida  
 Leland, M. E. 3 *b* 514 W. 122  
 Leland, R. H. A. 4 *b* 611 W. 111  
 Leland, S. R. *ph* Madison  
 Lellmann, W. O. 3 *m* 215 W. 98  
 Leman, G. W. *gr t* 55 Park Pl., Bklyn.  
 Lemcke, H. F. 4 *t* 14 Van Nest Pl.  
 Lemée, S. L. M. *ph* Coll. of St. Elizabeth, Convent  
 Lenihan, M. M. 1 *t* Laurel Hill, L. I.  
 Lenz, M. 4 *m* 221 W. 123  
 León, T. C. *fa* 1878 Seventh ave.  
 Leonard, C. F. 2 *c* 35 Murray, Flushing  
 Leonard, C. W. 4 *t* Whittier  
 Leonard, E. 2 *t* 19 W. 120  
 LeRoy, G. Sp Nm *b* 55 E. 65  
 LeSeur, H. N. 4 *m* 346 W. 57  
 Le Sourd, H. H. *pl* 600 W. 122  
 Leshner, A. L., Jr. *fa* Rye  
 Leslie, R. L. *fa* 2768 B'way  
 Leuch, E. A. 3 *t* 64 Downing, Bklyn.  
 Leuchs, F. A. H. *ph* 600 E. 164  
 Levene, H. *gr t* 43 W. 112  
 Leventhal, M. J. *gr t* 3 Attorney  
 Levi, R. E. 2 *b* 925 West End ave.  
 Levine, I. B. 1 *c* 456 Marcey ave., Bklyn.  
 Levine, M. *p* 449 W. 124  
 Levine, M. R. *phar* 9 E. 107  
 Levine, S. 3 *l* 403 W. 115  
 Levine, S. 4 *m* 108 Moore, Bklyn.  
 Levine, V. E. *p* 164 Havemeyer, Bklyn.  
 Levinsky, A. 1 *c* 326 Tenth ave.  
 Levinson, E. F. 2 *b* Park Hill, Yonkers  
 Levinson, S. J. 2 *l* 372 Wallabout, Bklyn.  
 Levitt, A. 4 *c* Willow Pl., Chapel House, Bklyn.  
 Levkowitz, A. 4 *s* 1066 Morris ave.  
 Levonian, L. K. *gr t* 114 Fifth ave.  
 Levy, A. H. 3 *t* Whittier  
 Levy, D. *p* 403 W. 115  
 Levy, D. M. 4 *t* 1816 Madison ave.  
 Levy, D. S. 2 *c* 245 W. 116  
 Levy, E. 3 *t* Whittier  
 Levy, E. L. 2 *b* 52 E. 87  
 Levy, J. 4 *c* 709 Bushwick ave., Bklyn.  
 Levy, J. 2 *s* 1064 Franklin ave.  
 Levy, J. 2 *m* 709 Bushwick ave., Bklyn.  
 Levy, L. M. 3 *l* 1893 Seventh ave.  
 Levy, M. 2 *l* 1366 St. Nicholas ave.  
 Levy, M. R. 1 *t* Whittier  
 Levy, S. C. 2 *s* 10-12 E. 108  
 Levy, T. J. 1 *b* 1893 Seventh ave.  
 Lewin, E. H. *pl* 135 E. 52  
 Lewin, W. *ph* 107 Littleton ave., Newark  
 Lewine, C. 2 *b* 116 E. 78  
 Lewinsohn, M. M. *pl* 46 W. 116  
 Lewis, A. B. *p* S. I. Academy, New Brighton  
 Lewis, C. L. 4 *c* 124 E. 81  
 Lewis, E. D. *pl* 507 W. 113  
 Lewis, E. L. 3 *t* 44 Essex, Bklyn.  
 Lewis, E. N. nm *j* 408 W. 115  
 Lewis, F. F. *gr t* 403 Sixth ave., Bklyn.  
 Lewis, J. C., Jr. *gr t* Livingston  
 Lewis, L. D. 1 *t* 32 William, Englewood  
 Lewis, M. J. *ph* 430 W. 118  
 Lewis, M. L. *p* Livingston  
 Lewis, R. 2 *l* Hartley  
 Lewis, R. W. 2 *m* 348 W. 57  
 Libbin, T. J. *ph*  
 Liberman, J. B. nm *l* 353 W. 118  
 Li Chao, A. F. 1 *s* Livingston

Licht, I. J. 2 c  
 131 Tompkins ave., Bklyn.  
*Lichtenstein, H.* 2 b  
 22 Morningside ave.  
 Lichtenstein, L. 3 s 165 E. 4, Bklyn.  
 Liebowitz, B. p 31 W. 89  
 Liebowitz, D. 3 j 31 W. 89  
 Liebschutz, L. F. 2 t  
 719 De Graw ave., Newark  
 Lien, A. J. pl 501 W. 121  
 Liff, J. p 49 E. 102  
 Light, M. 3 t  
 Hoboken Academy, Hoboken  
 Light, M. 3 t  
 Hoboken Academy, Hoboken  
 Lilley, J. L. 1 l 527 Riverside Dr.  
 Lilley, M. S. gr t Whittier  
 Lilly, C. C. pl 600 W. 122  
 Lin, T. T. 1 s Hartley  
 Lincoln, L. 2 b 74 W. 124  
 Lind, J. nm t 88 Morningside Dr.  
 Lindley, A. H. 2 l 500 W. 122  
 Lindner, A. F. fa 423 E. 169  
 Lindsley, G. fa 558 W. 113  
 Lingg, S. C. 4 b  
 303 St. Paul's ave., Tompkinsville  
 Lint, T. 3 b 223 Hewes, Bklyn.  
 Lintz, J. 3 c  
 907 St. Mark's ave., Bklyn.  
 Lisle, H. L. 4 t 415 W. 118  
 Linehan, P. H. p 607 W. 138  
 Livingston, L. C. 2 c Hartley  
 Livingston, R. R. 2 l  
 11 Washington Sq., No.  
 Livingston, S. M. 3 c  
 1403 Bryant ave.  
 Livingston, W. S., Jr. 2 s 161 E. 36  
 Lion, H. S. 1 c 349 Central Pk., W.  
 Lipari, A. F. 4 s 2071 Fifth-ave.  
 Lipman, L. H. 2 s 58 W. 57  
 Lipschultz, J. 4 c 45 Floyd, Bklyn.  
 Litsky, R. ph 220 Clinton  
 Little, C. 3 t  
 269 Union ave., Paterson  
 Little, F. K. pl 420 Riverside Dr.  
 Little, J. T. 4 c 1911 Crotona ave.  
 Lloyd, S. P. 3 l Hartley  
 Lobsenz, J. gr t 233 W. 122  
 Locke, B. H. pl 281 Fourth ave.  
 Lockhart, A. I. gr t  
 195 Claremont ave.  
 Lockwood, H. D. pl 527 W. 121  
 Lockwood, P. 4 b 550 Park ave.  
 Lodge, N. gr t 619 W. 144  
 Loesch, H. G. 2 c 615 Linden, Bklyn.  
 Loew, A. E. 1 c 307 W. 79

Loewy, M. B. 1 c  
 1251 Garden, Hoboken  
 Logan, C. T., Jr. 1 c 429 W. 117  
 Logan, H. pl Rockville Centre, L. I.  
 Logan, J. W. 3 t 416 W. 118  
 Logan, W. 4 c 76 Perry  
 Loggins, J. A. 4 m 149 W. 61  
 Login, C. gr t 114 E. 81  
 Lombard, R. H. p Livingston  
 Lommel, G. C. 4 s  
 502 Manhattan ave.  
 London, E. W. 4 t 920 Tiffany  
 Long, A. F. p Flushing, L. I.  
 Long, D. ph 42 Lenox Rd., Bklyn.  
 Long, F. E. 3 t Whittier  
 Long, R. V. 4 t Livingston  
 Long, S. V. ph 418 W. 118  
 Longnecker, M. L. 3 t 335 W. 55  
 Lonigan, M. E. 1 b  
 842 Hancock, Bklyn.  
 Lord, M. E. p 88 Morningside Dr.  
 Lorentz, M. M. 3 c  
 596 Monroe, Bklyn.  
 Lorenz, C. R. 1 b 168 W. 81  
 Loria, G. 1 j 332 W. 23  
 Loring, J. M. gr t 520 W. 122  
 Los Kamp, H. D. 2 c  
 55 Division ave., Bklyn.  
 Lotz, E. ph 121 Essex, Bklyn.  
 Loughran, G. A. gr t 405 E. 139  
 Loughran, K. A. 3 t 210 E. 36  
 Louis, E. I. ph  
 1381 Washington ave.  
 Louis, M. 4 t  
 L. I. Coll. Hospital, Bklyn.  
 Louis, S. M. 4 c 908 Kelly  
 Louria, A. L. 4 m 249 Hewes, Bklyn.  
 Louria, E. G. 2 b 249 Hewes, Bklyn.  
 Love, J. W. 2 c Hartley  
 Lovell, G. gr t  
 112 Crescent ave., Plainfield  
 Lowe, G. R. 1 c Hartley  
 Lowell, C. R. nm t 43 E. 64  
 Lowens, H. 4 m 1239 Franklin ave.  
 Lowenstein, A. G. 4 c 201 E. B'way  
 Lowndes, E. 3 b  
 19 Wallace ave., Mt. Vernon  
 Lowry, E. gr t 61 Grove, Passaic  
 Lowther, F. de L. p  
 610 Riverside Dr.  
 Lowy, A. p 1457 Bryant ave.  
 Lubarsky, D. A. 3 m  
 1529 Madison ave.  
 Lubetkin, M. 1 b 111 E. 95  
 Luce, E. B. gr t  
 88 Overpeek ave., Ridgefield Pk.







Mandell, A. J. E. 3 c 524 Grand  
 Mandell, S. B. 4 s 132 E. 82  
*Mander, M. J. Sp Nm b* Whittier  
 Mandel, S. gr t 170 Riverdale ave., Bklyn.  
 Mandle, H. H. 3 s 89 & Madison ave.  
 Manès, R. A. 4 s 6 W. 107  
 Mango, L. V. phar 331 E. 34  
*Manheim, Mrs. Z. C. 3 t* 69 E. 92  
*Manley, A. T. pl* Brooks  
 Mann, C. F. 3 t 109 Washington, Mt. Vernon  
 Mann, E. 3 t Whittier  
 Mann, J. 4 t 1302-67, Bklyn.  
 Mann, L. T. 1 m 7420 Thirteenth ave., Bklyn.  
 Mann, M. L. 2 b 420 W. 121  
 Manning, C. A. ph 144 E. 74  
 Manock, M. 1 t 525 W. 123  
 Mansback, J. E. 1 l 600 W. 113  
*Manser, R. B. 3 b* 31 Shady Side, Summit  
 Mansolff, A. K. f a 419 W. 115  
 Mapes, L. R. 4 s 435 W. 117  
*Mara, D. 3 t* 364 W. 55  
*March, A. G. gr t* 160 Claremont ave.  
 March, A. W. gr t 160 Claremont ave.  
 Marchmont, J. H. 2 l Hartley  
 Marcus, B. K. 3 l 315 Riverside Dr.  
 Marcus, L. 2 c 406 Sackman, Bklyn.  
 Marcus, S. 4 c 115 E. 113  
 Mardfin, V. H. 4 j 850 E. 161  
 Margold, C. 1 c 248 Snediker ave., Bklyn.  
 Margolis, E. ph 601 W. 162  
 Margon, S. 2 s 818 E. 166  
 Margoshes, S. gr t 1337 Wilkins ave.  
 Mariano, J. 1 c 349 W. B'way  
 Marion, P. 4 c 12 E. 39, Bayonne  
 Markham, B. C. phar 75 W. 68  
 Markel, L. 3 j 1119 Forest ave.  
 Markert, R. H. 1 c 417 W. 118  
 Marks, A. D. 2 l 89 Willow, Bklyn  
 Marks, R. 2 b  
 Marks, W. B. 3 c Richmond Hill, L. I.  
 Markwell, F. P. 2 b 27 W. 90  
 Marley, R. J. 2 b 90 Mt. Pleasant ave., Newark

*Marsh, F. A. 3 t* 257 W. 104  
 Marshall, H. L. 3 m 332 W. 56  
*Marshall, J. A. ph* 166 W. 79  
 Martin, A. gr t 523 W. 122  
 Martin, A. P. 2 l Livingston  
 Martin, F. L. 1 l Livingston  
*Martin, C. H. 3 b* 26 Convent ave.  
 Martin, H. G. ph 419 W. 119  
*Martin, K. I. 3 t* 165 Kearney ave., Perth Amboy  
 Martin, R. D. 3 b Brooks  
 Martin, T. D. ph 600 W. 122  
 Martinson, H. 2 m 295 E. 10  
 Martus, J. H. phar 32 W. 114  
 Marvin, E. S. 3 t 611 W. 112  
 Mary, B. K. pl 414 W. 118  
*Marx, O. ph* 2041 Washington ave.  
 Marx, O. J. 1 b 562 W. 113  
 Mason, E. F. 4 j Hartley  
 Mason, E. F. 1 t 17 W. 124  
 Mason, H. H. 3 s 4 W. 104  
 Mason, M. H. 3 b 61 Monroe, Bklyn.  
 Massarene, W. G. f a 1133 B'way  
 Massbach, J. ph 530 W. 113  
 Masson, H. J. 3 s 2377 Washington ave.  
 Mathes, F. P. 4 t 166 W. 129  
 Matheson, G. W. 3 c 627 W. 113  
*Mathews, M. E. 3 t* 1 Convent ave.  
 Mathison, E. 3 b 547 Broome  
 Matienzo, L. 1 t 501 W. 143  
 Matienzo, C. gr t Whittier  
 Mattes, M. H. 3 t 742 Lexington ave.  
 Matteson, L. J. 2 l 24 Urban, Mt. Vernon  
 Matthews, E. N. pl Brooks  
 Matzner, P. A. 4 t 471 Central Pk., W.  
 Maue, E. C. 3 t Whittier  
 Maul, W. F. 3 s 768 West End ave.  
 Maurice, S. 4 c 565 W. 113  
*Maxwell, A. B. 4 t* Whittier  
 Maxwell, C. L. M. 4 b 515 W. 122  
 Marx, R. M. 4 s Hartley  
 May, M. 2 c 550 W. 157  
 May, M. T. 1 t 419 W. 118  
 Mayer, C. 2 b 41 E. 72  
 Mayes, D. R. 3 c 518 E. 138  
 Mayer, E. 4 m 459 W. 147  
 Mayer, E. T. 3 b Corona Pk., Corona

- Mayer, J. W., Jr. 1 c  
     440 West End ave.  
 Mayer, M. D. 2 m      247 E. 71  
 Mayer, M. L. Sp Nm b      500 W. 121  
 Mayer, T. pl      41 E. 72  
 Mayers, L. pl  
     678 Greene ave., Bklyn.  
 Mayers, L. 1 c      1331 Madison ave.  
 Maze, M., Jr. 3 s      322 W. 57  
 McAdoo, F. H. 3 l      247 Fifth ave.  
 McAndrew, W. 3 t  
     39 Bryant Ter., Rahway  
 McBride, E. D. 3 m      339 W. 58  
 McCabe, D. H. 1 t  
     812 Eighth ave., Bklyn.  
 McCallum, J. D. 3 c  
     625 Bloomfield ave., Nutley  
 McCallum, K. L. 1 c  
     145 Penn, Bklyn.  
 McCandlish, R. W. 1 s      Hartley  
 McCann, D. F., Jr. 3 m  
     312 ave. C., W., Bklyn.  
 McCarthy, M. gr t      Whittier  
 McCarthy, R. gr t      528 W. 123  
 McCarthy, W. 4 l      112 Convent ave.  
 McChesney, E. 4 t      349 W. 145  
 McClees, H. ph 88 Morningside Dr.  
 McClelland, T. K. gr t  
     35 Treacy ave., Newark  
 McClure, E. G. 4 t      24 W. 12  
 McClure, H. 4 t      1987 Morris ave.  
 McConnell, D. B. 2 c      204 W. 110  
 McCormack, J. R. 4 t      439 W. 162  
 McCormick, Mrs. M. E. H. 2 t  
     Whittier  
 McCormick, M. E. ph  
     2441 Seventh ave.  
 McCormick, J. K. 4 c      237 E. 48  
 McCracken, R. W. 1 c  
     842 Lafayette ave., Bklyn.  
 McCracken, W. p  
     88 Morningside Dr.  
 McCrae, A. gr t      526 W. 114  
 McCrodden, E. V. 3 b      103 E. 112  
 McCurry, D. E. pl      2409 Grand ave.  
 McCurthy, R. D. gr t      528 W. 123  
 McCutcheon, H. L. ph      519 W. 121  
 McDonald, A. J. fa  
     151 W. Kingsbridge Rd.  
 McDonald, M. C. gr t      Whittier  
 McDaniel, J. E. ph      Hartley  
 McDonnell, J. H. fa      370 W. 120  
 McDowell, R. E. nm t      Whittier  
 McElhinny, J. J. 2 c      142 W. 131  
 McEntegart, C. J. 1 b      360 W. 51  
 McEntegart, T. E. 4 l      360 W. 51  
 McElvare, G. G. 4 c  
     231 Decatur, Bklyn.  
 McElvare, R. R. 4 c  
     231 Decatur, Bklyn.  
 McEwen, R. S. pl      Livingston  
 McGavock, A. J. ph      Whittier  
 McGavock, M. B. M. pl      Whittier  
 McGeever, J. A. 2 l  
     1292 Amsterdam ave.  
 McGiffert, K. W. 1 b      606 W. 122  
 McGill, N. P. ph      Whittier  
 McGivney, V. I. 4 b  
     789 West End ave.  
 McGough, F. J. 3 t      Whittier  
 McGrath, J. G. p      114 E. 117  
 McGraw, E. 3 t      Whittier  
 McGraw, J. 3 t      Whittier  
 McGreen, F. A. 3 m  
     349 St. John Pl., Bklyn.  
 McGuire, G. A. 4 t      Whittier  
 McHale, W. J. 1 c      542 W. 162  
 McIntyre, G. L. 1 t      527 W. 121  
 McKay, L. O. gr t      11 W. 126  
 McKechnie, M. W. 4 t      420 W. 118  
 McKee, T. C. 1 l      Livingston  
 McKelvey, J. R. 1 t  
     311 Webster ave., Jersey City  
 McKelvey, R. Sp M b  
     Spuyten Duyvil  
 McKenna, E. L. 4 c  
     235 McDonough, Bklyn.  
 McKenna, J. A. 2 s      604 W. 114  
 McKenzie, I. pl  
     67 Lenox ave., E. Orange  
 McKenzie, L. 3 t      528 W. 123  
 McKinless, R. 1 c  
     21 E. Radford, Yonkers  
 McKinley, J. A., Jr. t 4338 Park ave.  
 McKinney, A. H. 4 t      537 W. 121  
 McKinney, M. E. ph  
     189 Montclair ave., Montclair  
 McKinnon, J. 1 l      501 W. 121  
 McKirshaw, W. W. p      416 W. 118  
 McKnight, W. A. 4 s      423 W. 118  
 McLane, F. M. gr t      229 W. 126  
 McLaughlin, G. M. 3 b  
     951 Morris ave.  
 McLaughlin, R. L. gr t      505 W. 122  
 McLaughlin, W. 4 s      225 W. 86  
 McLaury, H. E. H. 4 t      27 W. 120  
 McLean, E. R. pl      600 W. 122  
 McLester, F. C. 3 t      Whittier  
 McLoughlin, F. O. X. 4 s  
     260 Convent ave.  
 McLochlin, G. G. 4 s  
     Belnord, 86, & B'way

McMackin, F. J. *p* 524 W. 123  
 McMahon, J. F. *i j* 762 E. 158  
 McManus, J. P. *3 l* 451-52, Bklyn.  
 McMillan, R. L. *1 l* 423 W. 118  
 McMurray, M. Q. *1 b* 149 Lincoln ave.,  
 Rockville Centre, L. I.  
 McNamara, J. G. *1 l* 230 W. 108  
 McNeile, H. J. *1 m* 68 Patchen ave., Bklyn.  
 McNulty, D. S. *3 c* 420 W. 130  
 McPherson, C. A. J. *1 m* 252 W. 53  
 McQueen, K. *nm t* 417 W. 120  
 McVicker, H. B. *3 l* Livingston  
 McVickar, H. I. *3 b* 269 N. Fulton ave., Mt. Vernon  
 McWilliams, W. B. *4 m* 231 W. 69  
 Meacham, L. H. *1 t* 414 W. 118  
 Mead, M. E. *3 t* Whittier  
 Mead, M. J. *f a* 519 W. 121  
 Meador, L. E. *pl* 773 Columbus ave.  
 Mebane, T. S. *4 m* 346 W. 57  
 Mechanic, J. *2 s* 533 Knickerbocker ave., Bklyn.  
 Medine, S. *1 s* 137 Pitt  
 Meeker, C. H. *4 t* 117 W. 130  
 Meenam, W. T. *1 j* 630 W. 139  
 Meenan, D. L., Jr. *4 c* 35 W. 88  
 Mehler, E. S. *pl* 322 W. 100  
 Mei, H. C. *3 l* 457 W. 123  
 Meierhof, H. L. *2 c* 1140 Madison ave.  
 Meirowitz, S. *2 t* 1613 Second ave.  
 Meisel, C. J. W. *2 l* 536 W. 114  
 Meissner, C. E. *4 s* 627 W. 113  
 Meistretta, J. *4 m* 315-17 E. 29  
 Melberg, H. *1 s* 60 Ludlow  
 Meleney, F. L. *1 m* 509 E. 16, Bklyn.  
 Meleney, H. E. *2 m* 509 E. 16, Bklyn.  
 Mellamed, H. C. *1 j* 478 Grand  
 Melsha, J. C. *4 b* 72 Greene ave., Bklyn.  
 Melville, N. J. *gr t* 244 Carlton ave., Bklyn.  
 Melvin, H. M. *4 t* 381 So. B'way, Yonkers  
 Memory, M. F. *1 t* Whittier  
 Mendes, A. P. *1 c* 106 Central Pk., W.  
 Mendonea, O. *1 s* Hartley  
 Menefee, H. R. *1 s* 627 W. 113  
 Menken, H. D. *2 c* 791 West End ave.  
 Mercado, L. M. *nm t* 509 W. 122

Merrett, Mrs. C. C. *pl* 180 Claremont ave.  
 Merrill, G. A. *pl* 263 Union, Hackensack  
 Merrill, R. M. *pl* Roselle Pk.  
 Merriman, W. H. *1 t* Livingston  
 Merritt, G. H. *2 l* 416 W. 118  
 Merritt, M. M. *1 b* Brooks  
 Merryman, A. P. *2 l* 537 W. 149  
 Mertinson, H. *2 m* 295 E. 10  
 Mertz, P. A. *gr t* Plainfield  
 Mesick, J. L. *ph* 92 Overpeek ave., Ridgefield Pk.  
 Messenger, H. A. *p* 569 W. 150  
 Messing, A. *1 m* 24 Lewis  
 Meston, I. E. *4 t* Whittier  
 Metz, C. W. *p* Hartley  
 Meyer, A. P. *4 s* 139 W. 86  
 Meyer, C. H. *2 l* Livingston  
 Meyer, C. L. W. *pl* 2 W. 89  
 Meyer, D. L. *1 c* 103 W. 136  
 Meyer, F. P. *3 t* 15 Cedar Pl., Yonkers  
 Meyer, H. *4 t* 50 W. 77  
 Meyer, H. L. *2 c* 700 Madison ave.  
 Meyer, I. M. *2 b* 126 W. 78  
 Meyer, M. N. *2 b* Brooks  
 Meyer, Mrs. M. W. *gr t* 520 W. 114  
 Michael, M. B. *nm t* Whittier  
 Michaels, L. *2 m* 925 Jackson ave.  
 Michaelson, A. G. *1 s* New Rochelle  
 Milbank, R. W., Jr. *2 c* Riverdale  
 Miles, S. H. *3 m* 575 W. 183  
 Milheiser, C. F. *4 c* Livingston  
 Millar, L. M. *Sp Nm b* 445 Park, Upper Montclair  
 Miller, A. W. *p* 62 E. 53  
 Miller, C. W. *gr t* 419 W. 115  
 Miller, D. B. *3 c* 419 W. 119  
 Miller, D. H. T. *gr t* 622 W. 179  
 Miller, E. A. *1 s* 1642 Anthony ave.  
 Miller, E. G., Jr. *p* 346 W. 57  
 Miller, E. T. *gr t* Whittier  
 Miller, F. *4 s* 604 W. 114  
 Miller, G. E. *f a* 314 W. 112  
 Miller, H., Jr. *1 c* 624 E. 16, Bklyn.  
 Miller, H. J. *2 c* 495 Argyle Rd., Bklyn.  
 Miller, H. W. *3 c* 558 W. 113  
 Miller, I. *gr t* 194 Avon ave., Newark  
 Miller, J. *4 t* 21 Seventeenth ave., Newark  
 Miller, J. *gr t* 43 Chadwick ave., Newark

- Miller, J. S. 3 s 565 W. 113  
 Miller, M. I. 3 t 138 Hamilton ave., Passaic  
 Miller, M. M. 4 t Whittier  
 Miller, M. V. 1 m 346 W. 57  
 Miller, S., Jr. 1 l Hartley  
 Miller, W. D. 4 t 486 W. 136  
 Millette, A. 3 t 415 W. 118  
 Millman, D. S. 2 s 87 Amboy, Bklyn.  
 Millot, H. D. 3 t 430 W. 119  
 Mills, F. A. 3 b 557 W. 124  
 Milyko, A. 1 s 1475 Crotona Pl.  
 Miner, C. E. pl 832 St. Nicholas ave.  
 Miner, L. M. 2 t Whittier  
 Miner, M. W. 1 t 832 St. Nicholas ave.  
 Miner, R. W. p American Museum Nat. Hist.  
 Miner, S. L. 3 b 235 W. 109  
 Miner, W. H. ph Madison  
 Minervini, V. 4 m 247 E. 115  
 Minor, J. H. 1 l 550 W. 114  
 Minsky, H. K. 2 l 224 E. 15  
 Miraglia, M. J. phar 2287 First ave.  
 Mirsky, M. E. 1 b Brooks  
 Misch, H. D. 1 b 168 W. 130  
 Mischlich, H. L. 3 c 820 President, Bklyn.  
 Mistretta, J. 4 m 317 E. 29  
 Mitchell, B. E. p 501 W. 122  
 Mitchell, E. 4 t 420 W. 119  
 Mitchell, L. M. 3 t 2465 B'way  
 Mizutani, K. pl 80 Manhattan ave.  
 Mock, F. C. 4 s 647 E. 29, Bklyn.  
 Moeller, L. N. 1 s 2185 Seventh ave.  
 Möhle, J. E. 2 b 2341 Andrews ave.  
 Mohr, W. R. 4 c 530 W. 142  
 Moffat, E. 1 t 476 Main, Orange  
 Moffett, M. L. 4 t Whittier  
 Moitrier, W., Jr. 4 m 454 Putnam ave., Bklyn.  
 Mokusabro, M. K. t 313 E. 18  
 Molloy, F. ph 430 W. 118  
 Monell, L. M. 1 s 332 W. 56  
 Monosmith, G. W. 3 l  
 Monroe, M. M. 2 b 194 Midwood, Bklyn.  
 Monroe, W. S. gr t Montclair  
 Monser, J. W. 2 c 825 W. 179  
 Montanaro, F. B. fa 159 Prince  
 Montgomery, E. E. 4 t 12 E. Radford, Yonkers  
 Montgomery, S. L. ph 430 W. 119  
 Montoro, J. E. 4 l 237 W. 107  
 Moody, L. M. 4 m 86 & Bway  
 Moorhead, H. M. 1 c 387 Bergen, Bklyn.  
 Mook, C. C. p Amer. Mus. Nat. Hist.  
 Moon, E. A. p 436 Manhattan ave.  
 Moon, P. LeR. 4 c 633 W. 115  
 Moon, M. S. 1 c 68 Cornell ave., Yonkers  
 Moore, A. E. 3 t 507 W. 121  
 Moore, C. M. G. 4 t 177 & Riverside Dr.  
 Moore, D. M. 1 s Hartley  
 Moore, Mrs. E. B. nm t 126 W. 127  
 Moore, E. W. 1 s Flushing, L. I.  
 Moore, F. L. 4 t Whittier  
 Moore, H. B. 4 l 540 W. 113  
 Moore, G. W. pl 316 W. 52  
 Moore, P. F. 3 t 126 W. 127  
 Moore, R. B. 3 m 359 W. 57  
 Moore, W. V. 2 c 631 Eastern P'kway, Bklyn.  
 Moorehead, H. L. 4 t 500 W. 121  
 Moorhead, H. McL. 1 c 387 Bergen, Bklyn.  
 Moorhead, H. R. nm c Bronxville  
 Moorhouse, E. B. 2 c 37 W. Main, Tarrytown  
 Morang, J. M. 1 t 528 W. 123  
 Morch, J. 1 s 304 Carroll, Bklyn.  
 Mordecai, L. ph 319 W. 105  
 More, M. F. 1 t Whittier  
 Morgan, A. R. pl 175 Ninth ave.  
 Morgan, C. E. ph 1173 Bushwick ave., Bklyn.  
 Morgan, C. L. 1 j Hartley  
 Morgan, D. T. 2 b 613 W. 146  
 Morgan, F. S. 1 t Whittier  
 Morgan, J. J. B. pl Madison  
 Morgan, M. 2 b 558 Valley Rd., Upper Montclair  
 Morgenthau, L. R. 2 b 161 W. 91  
 Moriarty, L. P. 2 c Ossining  
 Moritz, C. C. 3 j Brooks  
 Morrey, W. T. pl 535 W. 111  
 Morrill, A. H. 4 s Livingston  
 Morrill, A. M. 4 t 329 Harrison, Passaic  
 Morrill, P. P. ph 615 W. 136  
 Morrill, R. D. 2 l 418 W. 118  
 Morris, A. 3 t 1574 Madison ave.  
 Morris, G. E. 4 b 396 E. 171  
 Morris, L. R. 3 c 18 E. 60  
 Morris, M. J. p 485 Central Pk., W.  
 Morris, R. M. fa 234 Hancock, Bklyn.



Morris, W. 1 c 64 Humboldt, Bklyn.  
 Morrison, A. L. *pl*  
 Morrison, D. H. 1 t 237 E. 104  
 Morrison, F. H. 1 m 97 Halsey, Newark  
 Morrison, R. H. 2 l Livingston  
 Morrison, S. T. B. 3 l 401 W. 118  
 Morrison, W. R. 3 m 346 W. 57  
 Morrissey, L. 1 t 320 W. 96  
 Morrissey, S. J. 3 t 500 W. 121  
 Morrow, A. J. 3 t 602 Henry, Bklyn.  
 Morse, G. E. 3 t 123 E. 89  
 Morse, H. E. 3 s Hartley  
 Morse, L. T. *gr t* 230 Keap, Bklyn.  
 Morton, I. A. *ph* 205 W. 109  
 Moses, A. S. 4 s 558 W. 113  
 Moses, F. 3 t 228 Westchester ave., Mt. Vernon  
 Moses, I. *gr t* 400 Grand  
 Moses, M. L. 2 b 8 E. 127  
 Moses, S. *ph* 228 Westchester ave., Mt. Vernon  
 Moskowitz, D. H. 3 c 1722-79, Bklyn.  
 Moss, B. C. *gr t* Whittier  
 Moss, E. J. *fa* 23 E. 127  
 Moss, L. B. 4 t 511 W. 122  
 Mossman, J. M. 1 c Bretton Hall  
 Mount, H. E. 3 b 16 Morningside ave.  
 Mount, M. L. 3 t Whittier  
 Mountsier, M. *gr t* 417 W. 118  
 Mouquin, L. H. F. 2 c 273 West End ave.  
 Muehleck, L. E. 1 t 115 Oak, Hoboken  
 Mueller, H. H. 2 c Bronxville  
 Muesch, E. G. 1 m 273 Bainbridge, Bklyn.  
 Mueser, E. 2 s 3260 Hull ave.  
 Mueser, F. A. *ph* 3260 Hull ave.  
 Muir, H. L. 2 t 129 W. 92  
 Mulhall, E. F. 3 b 315 W. 97  
 Mullaney, E. A. *ph* Maywood  
 Mullen, I. M. 2 t Whittier  
 Mullen, J. A. 2 l 627 W. 113  
 Muller, A. H. *ph* 562 W. 150  
 Müller, C. A. 2 s Hawthorne  
 Muller, H. J. *p* 562 W. 150  
 Müller, M. K. 3 t 695 E. 170  
 Mullins, G. W. *p* 435 W. 119  
 Mulqueen, J. F., Jr. 3 l 888 Park ave.  
 Mulqueen, M. A. 3 t 76 Manhattan ave.

Mulqueen, M. S. 3 t 76 Manhattan ave.  
 Mulwitz, J. L. 4 c Hartley  
 Mumford, A. M. 3 t Whittier  
 Mumford, A. R. 4 t 543 W. 123  
 Mumford, M. B. 3 b 543 W. 123  
 Munro, E. 4 t 161 Emerson Pl., Bklyn.  
 Munro, M. 3 t 854 ave. C, Bayonne  
 Munro, S. H. 3 t 414 W. 120  
 Munroe, A. F. *nm j*  
 Muravchik, R. B. *pl* 60 W. 109  
 Murdock, K. *gr t* 537 W. 123  
 Murgatroyd, R. R. 1 t 840 Gerard ave.  
 Murkland, M. *ph* 301 W. 96  
 Murnane, R. C. 1 b 274 DeGraw, Bklyn.  
 Murnen, A. L. 2 c 520 W. 123  
 Murphy, A. J. *ph* 114 Waverly Pl.  
 Murphy, G. B. 3 c 104 W. 102  
 Murphy, E. H. *ph* 1551-55, Bklyn.  
 Murphy, H. A. 2 b 16 E. 130  
 Murphy, I. C. 4 t 38 Fulton, Weehawken  
 Murphy, J. A. 2 c Hartley  
 Murphy, W. A. 4 t 111 Fort Greene Pl., Bklyn.  
 Murray, E. T. *phar* Bangor, Me.  
 Murray, E. W. 2 s Hartley  
 Murray, R. C. *pl* Livingston  
 Murray, V. J. 1 s 1190 Madison ave.  
 Musgrave, E. *ph* 122 E. 66  
 Mutscheller, A. 4 c German Hosp.  
 Myers, D. K. 1 d 153 W. 78  
 Myers, E. *ph* 411 W. 115  
 Myers, O. B. 1 s 109 So. Third ave., Mt. Vernon  
 Mylecraine, G. *Sp t* 88 Morningside Dr.  
 Naboshek, D. P. 1 s 48 E. 101  
 Nacht, V. 3 s 148 W. 142  
 Nadler, C. 4 t 2127 Bergen, Bklyn.  
 Nagourney, I. *gr t* 246 E. B'way  
 Nammack, E. F. *ph* 90 Morningside Dr.  
 Nankin, I. 3 c 91 Meserole, Bklyn.  
 Naravane, S. G. 4 s 331 E. 51  
 Nargney, C. M. *nm t* Whittier  
 Natanson, D. M. 3 m 35 W. 115  
 Nathan, E. 2 t 3681 B'way  
 Nathan, R. G. 1 b 127 W. 74  
 Nathanson, M. E. 1 b 393 Central Pk., W.



- Nathanson, S. *l* 1441-46, Borough Pk., Bklyn.  
 Naumer, H. A. *l c* 514-11, Bklyn.  
 Navon, S. *2 s* 945 Jackson ave.  
 Neacy, A. *4 b* 601 W. 113  
 Neale, L. F. *4 t* Whittier  
 Neer, I. *1 b* 245 B'way, Paterson  
 Neff, C. A. *pl* 554 W. 114  
 Neff, I. H. *4 t* 420 W. 118  
 Neidle, M. *p* 108 Pitt  
 Neidy, C. L. *1 t* 416 W. 118  
 Neinken, M. L. *1 s* 378 Keap, Bklyn.  
 Nekarda, V. F. *3 c* 504 E. 86  
 Nelms, W. S. *p* Livingston  
 Nelson, N. E. *3 s* Edgewater  
 Nelson, S. A. C. *2 b* 226 E. 40  
 Nemser, M. *1 m* 88 First ave.  
 Nesbit, W. M. *ph* Basking Ridge  
 Nester, D. *gr t* Hasbrouck H'ts.  
 Neugass, M. *4 b* 415 W. 145  
 Neuman, D. L. *4 s* 1602 Madison ave.  
 Neumann, E. *2 c* 210 Stockton, Bklyn.  
 Neumann, H. *ph* 304 Marlborough Rd., Bklyn.  
 Neun, D. E. *p* Brooks  
 Nevin, W. M. *2 c* 68 & Colonial Rd., Bklyn.  
 Nevitt, H. G. *1 s* 624 W. 139  
 Newberger, M. J. *1 c* 401 West End ave.  
 Newell, G. M. *gr t* 554 W. 114  
 Newfield, L. A. *2 m* 33 Thatford ave., Bklyn.  
 Newhall, A. H. *pl* 15 E. 38  
 Newman, A. A. *pl* 22 W. 111  
 Newman, D. *2 c* 147 Van Buren, Bklyn.  
 Newman, F. W. *1 c* 506a-5, Bklyn.  
 Newman, J. W. *1 c* 506a-5, Bklyn.  
 Newman, M. R. *4 b* 44 E. 68  
 Newmark, S. *4 b* 951 Sherman ave.  
 Newsom, H. A. *1 c* Hartley  
 Newton, A. M. *1 t* 160 Claremont ave.  
 Nichols, C. F. *2 m* 42 W. 68  
 Nichols, S. VanB. *nm l* 88 & Riverside Dr.  
 Nicholson, F. M. *ph* 500 W. 122  
 Nicholson, A. A. *1 j* 633 W. 115  
 Nicola, L. *3 b* Cedar Grove, N. J.  
 Nicoll, W. L. *4 c* 126 E. 34  
 Nicolson, W. P., Jr. *1 m* Livingston  
 Nielsen, L. H. *3 c* 666 Dawson  
 Niles, F. L. *3 m* 351 W. 56  
 Nislovsky, L. *gr t* 1384 St. Mark's ave., Bklyn.  
 Noble, K. *3 b* 304 W. 77  
 Noble, R. *3 l* 304 W. 77  
 Nolan, A. B. *3 c* 286 Sterling Pl., Bklyn.  
 Nolan, J. L. *nm c* 174 Battery ave., Bklyn.  
 Nolan, T. J. *1 c* 108 Bergen ave., Jersey City  
 Noll, W. L. *p*  
 Nolte, A. C. *3 s* 158 W. 84  
 Nomland, K. *fa* 524 W. 123  
 Noonan, R. L. *2 c* 102 Oakland, Bklyn.  
 Nordlinger, H. H. *2 l* 45 E. 80  
 Norek, A. *1 c* 1544 Union, Bklyn.  
 Norris, H. A. *1 t* 512 W. 122  
 Norris, N. *1 b* Brooks  
 Norris, N. K. *4 t* 530 Riverside Dr.  
 North, M. *gr t* 147 Park, Montclair  
 Northrop, J. H. *p* 608 W. 113  
 Northrup, E. *3 t* 103 Madison ave., Clifton  
 Norton, A. E. *2 t* Whittier  
 Norton, A. W. *1 s* 614 W. 113  
 Norton, E. K. *Sp Nm b* Pelham Manor  
 Norton, K. B. *fa* 30 E. 55  
 Nositzer, G. *3 s* 217 W. 111  
 Nowak, A. *pl* 77 E. 115  
 Nowlan, F. S. *1 m* Livingston  
 Noyes, E. J. *nm c* 515 W. 160  
 Noyes, M. H. *3 t* 503 W. 121  
 Nullette, A. *3 t* 415 W. 118  
 Nusim, S. I. *1 s* 51 St. Mark's Pl.  
 Nussbaum, B. *3 c* Pleasantville  
 Nye, B. H. *pl* 59 & Tenth ave.  
 Nyi, J. Z. T. *4 t* Hartley  
 Nyland, F. C. *3 c* 614 W. 157  
 Oberlin, M. L. *gr t* Whittier  
 Oberrender, G. F. *1 c* Hartley  
 O'Brien, C. E. *gr t* 1324 Lexington ave.  
 O'Brien, D. C. *2 l* Hartley  
 O'Brien, E. T. *2 b* 729 Park ave.  
 O'Brien, J. G. *ph* 211 Jefferson ave., Bklyn.  
 O'Brien, M. J., Jr. *nm l* 729 Park ave.  
 O'Brien, M. M. *3 t* 2781 Bainbridge ave.  
 O'Brien, W. J. *4 t* Hartley  
 O'Byrne, M. A. *ph* 349 W. 121  
 Ocampo, S. *nm l* Livingston

*Ochs, I. B.* 3 b 308 W. 75  
*O'Connell, M.* p 616 W. 182  
*O'Connor, A. J.* 1 m 143 Himrod, Bklyn.  
*O'Connor, G. W.* 2 s 268 W. 93  
*Odum, G. A.* ph 418 W. 118  
*Odell, D. W.* phar 115-68  
*O'Donahoe, G. G.* 1 l 416 W. 122  
*O'Donnell, A. T.* ph 2681 Briggs ave.  
*O'Donnell, A. V.* 4 s 359 W. 120  
*O'Donnell, M. M. A.* ph 2681 Briggs ave.  
*O'Donnell, R. C.* 4 s 359 W. 120  
*O'Dowd, J. J.* 1 m 418 W. 150  
*Oellrich, P. F.* pl 120 Lenox ave., E. Orange  
*Oelrichs, H.* 2 c 1 E. 57  
*Oerzen, E. M.* 4 b 1022 Woodycrest ave.  
*Oerzen, Elsie, M.* 2 b 1022 Woodycrest ave.  
*Oestermeyer, L.* 4 t Whittier  
*Officer, H. G.* 4 s Hartley  
*Offinger, M. I.* 1 b E. Lincoln ave., Mt. Vernon  
*Offner, O.* pl 214 E. 68  
*Ogden, F. L.* 1 t 241 Summit ave., Hackensack  
*Ogilvie, P. M.* 4 c 625 W. 113  
*Ohlssen, W. C.* 3 s 407 E. 134  
*O'Kane, R. G.* 3 s 417 W. 120  
*O'Keefe, M. T.* 4 t 1284 Pacific, Bklyn.  
*O'Keefe, L. L.* 4 t Orthopaedic Hosp., White Plains  
*Olafson, H. S.* 2 c 633 W. 115  
*Olcott, E. B.* Sp nm b 111 W. 13  
*Oldfield, C. B.* 2 c Hartley  
*Oldright, G. L.* 3 s 510 W. 124  
*O'Leary, C. O. L., ph* 88 Convent ave.  
*O'Leary, J. G.* 4 m 325 W. 58  
*Oller, M.* ph 70 Morningside Dr.  
*Ollorton, M. J.* gr t 47 W. 130  
*Olmsted, C. E.* 2 s 50 Morningside Dr.  
*Olt, H.* 3 s 414 E. 134  
*O'Malley, C. A.* 1 c 1290 St. Nicholas ave.  
*O'Malley, Q.* gr t Brooks  
*O'Neale, J. S., Jr.* 2 c 600 W. 114  
*O'Neale, L. M.* gr t Whittier  
*O'Neill, J. A.* 4 c 408 W. 115  
*Oppenheim, Mrs. L. S.* 2 t 501 W. 138

*Oppenheimer, L. M.* 2 b 777 West End ave.  
*Oram, R. M.* 1 c 340 W. 57  
*Ord, A. A.* 3 b 851 W. 181  
*O'Reilly, V. J.* 2 c 112a Bay View ave. Jersey City  
*O'Reilly, W. T.* 2 s 8 Mt. Morris Pk., W.  
*Orliansky, J. B.* 4 t 7 W. 111  
*Ormsbee, R. H.* 2 s Hartley  
*Orr, L. C.* ph Whittier  
*Orr, W. S.* 1 l 408 W. 130  
*Orthy, G. F.* 2 s 486 Marion, Bklyn.  
*Osborn, E.* 3 t Whittier  
*Osborn, H.* 2 t 40 Hobart ave., Summit  
*Osborn, K. D.* 2 l 540 W. 113  
*Osborn, L.* 3 t 10 E. 81  
*Osborn, T. G.* phar 364 W. 35  
*Osborne, A. A.* pl 224 Broad, Newark  
*Osgood, H. S.* 2 c 526 W. 150  
*Osgood, M. M.* 3 t Whittier  
*Osgood, M. S.* pl 526 W. 150  
*Osmond, E. G.* 3 t Whittier  
*Osserman, H. A.* 4 c 17 Sterling Pl., Edgewater  
*Osswalt, R. L.* 1 c 420 Kosciuszko, Bklyn.  
*Oster, J. E.* pl 522 W. 123  
*Osterberg, R. A.* 3 b 270 W. 118  
*Osterhamp, F. E.* 2 j 580 W. 117  
*Osterholm, C. A.* 3 t 350 Bergen, Bklyn.  
*Osterhus, G. K.* 2 c Hartley  
*Osterhus, P. O.* gr t Hackensack  
*Osterman, C. K.* 2 c 519 Central ave., Jersey City  
*Ostrom, F. B.* 3 t Whittier  
*Ostrow, A.* 1 c 945 Whitlock ave.  
*Ottenberg, S. M.* 2 c 495 West End ave.  
*Otto, C. F.* pl 496 Sixth ave., Bklyn.  
*Overman, J. R.* gr t 527 W. 124  
*Overstreet, Mrs. E. B.* nm t 2291 Aqueduct ave.  
*Overton, J. A.* 2 m 355 Crimmins ave.  
*Owens, E. A.* 3 b 773 Jefferson ave., Bklyn.  
*Packard, C.* p Hartley  
*Packard, E.* pl 246 E. 34  
*Paddock, A. M.* 2 b 149 W. 72  
*Paddock, E. H., Jr.* 2 s 149 W. 72  
*Paddock, L.* 3 s 141 W. 70

- Paddock, R. 3 m 141 W. 70  
 Padwe, F. 1 c 297-4, Jersey City  
 Page, D. T. gr t  
 127 Prospect Pl., Rutherford  
 Page, F. R., gr t  
 Staten Is. Acad., New Brighton  
 Page, W. E. fa Hartley  
 Paine, E. W. 4 m 346 W. 57  
 Paine, G. E. 1 c 18 W. 49  
 Paine, L. K. 1 t Whittier  
 Paine, M. D. 4 t 200 W. 70  
 Paleg, S. 4 m 317 W. 44  
 Pallen, C. de S. 3 m  
 197 Weyman ave., New Rochelle  
 Palley, D. M. 2 l  
 1412 Pitkin ave., Bklyn.  
 Palmer, A. F. 4 t 557 W. 144  
 Palmer, C. A. 3 t 110 W. 91  
 Palmer, E. 2 l  
 70 Lefferts Pl., Bklyn.  
 Palmer, E. 2 b 828 St. Nicholas ave.  
 Palmer, E. A. pl 414 W. 120  
 Palmer, F. 3 b 442 E. 136  
 Palmer, H. M. 1 c 312 W. 102  
 Palmer, H. W. 1 c Hartley  
 Palmer, L. L. 4 t Livingston  
 Pang, C. M. 3 c  
 499 Washington ave., Bklyn.  
 Parcel, E. E. nm t  
 35 Elm, Morristown  
 Pardee, I. H. 4 c 74 W. 48  
 Pareis, E. M. 1 b 77 Morton  
 Parelhoff, B. M. pl 676 Beck  
 Park, E. A. fa Livingston  
 Park, J. H. pl Wyoming  
 Parke, L. P. 3 t Whittier  
 Parker, M. P. 4 t Hartley  
 Parks, E. T. 4 b 129 W. 76  
 Parmenter, E. L. gr t 3115 B'way  
 Parotzky, J. phar 1450 Madison ave.  
 Parsons, A. T. L. pl 863 Park ave.  
 Parsons, J. O. 4 c 474-3, Bklyn.  
 Parsons, L. S. ph 99 Park ave.  
 Parsons, W. B., Jr. 3 m 35 E. 50  
 Pascarella, A. J. 1 s Emerson  
 Pascarella, F. 3 l 20½ Macdougall  
 Passover, G. C. 3 m 606 W. 115  
 Pastel, E. V. ph 247 Audubon ave.  
 Paszek, L. F. 2 c  
 298 Seventh ave., Bklyn.  
 Patchell, F. J. 4 s 430 W. 119  
 Paterson, S. fa 431 W. 117  
 Patrick, M. M. 3 t 430 W. 119  
 Paton, T. B., Jr. 3 l 1777 Clay ave.  
 Patrick, S. L. 4 t  
 88 Morningside Dr.
- Patterson, G. S. 3 s 616 W. 113  
 Patterson, J. E. 4 s Livingston  
 Patteson, K. 3 t Tarrytown  
 Patteson, L. M. 2 t Whittier  
 Patterson, M. W. 2 b  
 Patterson, W. A. 2 c Ward's Island  
 210 Riverside Dr.  
 Pauve, R. E. fa  
 29 Schermerhorn, Bklyn.  
 Pawley, A. 4 b 610 W. 152  
 Paxton, M. 4 b 435 W. 119  
 Paxton, S. gr t 429 Convent ave.  
 Payne, N. B. 3 t 423 W. 118  
 Payne, O. S. pl 18 E. 28  
 Paynter, R. H., 3d ph  
 1205 Fulton, Bklyn  
 Peabody, E. P. gr t 503 W. 121  
 Pearce, C. C. 1 l Hartley  
 Pearl, P. L. 2 c 206 Hart, Bklyn.  
 Pearlman, J. 1 c 481-16, Bklyn.  
 Pearson, G. I. 1 b 1525-50, Bklyn.  
 Pearson, G. M. 4 b  
 Home Pk., New Rochelle  
 Pearson, L. E. 4 t  
 1288 Amsterdam ave.  
 Pearson, P. C. ph  
 27 Cottage Pl., Ridgewood  
 Peart, E. N. ph 867 E. 224  
 Peck, C. L. 4 t Whittier  
 Peck, F. E. gr t Whittier  
 Peck, J. S. 2 s 412 W. 115  
 Peck, M. 3 b 48 E. 89  
 Pedreck, F. B. ph 419 E. 57  
 Peene, E. L. 1 t  
 54 Lamartine ave., Yonkers  
 Peeples, T. K. 3 l  
 100 Morningside Dr.  
 Peet, G. D. 4 s 619 W. 113  
 Peet, R. L. 1 t 144 W. 93  
 Peiker, H. C. 1 l Hartley  
 Pell, V. D. 2 s 234 W. 122  
 Pellegrini, C. U. fa  
 254 Manhattan ave.  
 Peltz, G. M. 2 s 123-4, Elmhurst  
 Pendleton, N. G. 1 s  
 30 Garden Pl., Bklyn.  
 Pendleton, W. 3 t Whittier  
 Penfield, R. G. 2 s  
 Fort Wash'n ave. & 198  
 Pennell, M. E. gr t  
 67 Central ave., New Rochelle  
 Penniston, J. B. 4 j 554 W. 114  
 Perkins, E. B. nm j Hartley  
 Perlman, D. H. ph 62 E. 117  
 Perlman, G. H. 2 b  
 1988 Madison ave.

Perlowitz, C. 4 c  
600 Quincy, Bklyn.  
Perlzweig, W. A. 4 c  
1421 Prospect ave.  
*Pero, S. E.* 4 b 30 Convent ave.  
Person, C. 4 c 536 W. 114  
Perry, E. O. pl 26 Jones  
*Perry, H. C.* 3 t 340 W. 85  
*Perry, M. A.* 3 t 110 Convent ave.  
Perry, R. R. 1 c  
134 Overlook ave., Hackensack  
Perry, T. A., Jr. 1 l Hartley  
Perry, W. G. ph Hartley  
Perry, W. H. ph 600 W. 122  
Petchtle, C. B. 1 c 500 W. 143  
Peterkin, J. T. 4 t 500 W. 122  
*Peters, A.* 2 t Whittier  
Peters, A. 3 m  
291 Hancock, Bklyn.  
Peters, F. F. 1 s 227 W. 99  
*Peters, Mrs. I. L.* pl  
610 Riverside Dr.  
Peters, J. P., Jr. 4 m 227 W. 99  
*Peters, M. K.* 4 t Whittier  
*Peters, R.* 3 t 152 W. 55  
Petersen, A. E. 4 s 565 W. 113  
Peterson, A. E. pl Morris H. S.  
Peterson, C. W. 3 c 1 Convent ave.  
*Petri, L. A.* 3 b 278 Decatur, Bklyn.  
*Pettee, C. A.* 1 t 417 W. 121  
Pettit, G. E. 3 l Far Rockaway  
*Pfeffer, A. M.* 1 b  
265 Seventh ave., Astoria, L. I.  
Pfeiffer, W. P. 1 c 3495 B'way  
Phelps, B. J. gr t  
137 Grove, Plainfield  
*Phelps, E. C.* 3 t 519 W. 121  
Phelps, F. L. 4 c  
103 Alta ave., Park Hill, Yonkers  
Philbrick, F. S. 3 l  
99 Claremont ave.  
Philips, H. B. 3 m  
1632 Madison ave.  
*Phillips, C. D.* 4 t 3 Miln, Cranford  
*Phillips, E. P.* 3 t 132 W. 112  
Phillips, H. pl 557 W. 124  
Phillips, J. D. 4 s 14 E. 113  
*Phillips, R. B.* Sp Nm b 101 W. 78  
Phillips, R. H. 2 l 430 W. 119  
Phillips, W. C. ph Livingston  
Phillipson, B. F. 4 s 3905 B'way  
*Philp, M. I.* ph 126 Macon, Bklyn.  
Philson, B. 2 l Livingston  
Phipps, F. H. 3 c Mt. Vernon  
Phipps, W. G. 4 m  
102 So. Sixth ave., Mt. Vernon

*Pick, T.* ph 41 E. 72  
*Pickering, D. I.* 3 t 22 Convent ave.  
Pickering, H. V. gr t Livingston  
*Pierce, E. C.* 3 t 430 W. 119  
*Pierce, E. D.* pl  
*Pierpont, J. H.* 2 b  
29 Church, White Plains  
Pierson, W. W. pl Livingston  
Pike, S. M. 4 c 960 Fox  
Pilnacek, E. A. 2 s 425 E. 71  
Pincus, S. 4 c 1800 Seventh ave.  
*Pine, M. B.* 1 b  
961 St. Nicholas ave.  
Pineda, R., Jr. 4 s 608 W. 113  
Pink, C. E. 1 c 724 Monroe, Bklyn.  
*Pinkham, F. A.* gr t  
168 Depew, Peekskill  
Pinkham, G. P. gr t  
22 W. Kinney, Newark  
Pinney, M. M. 4 t  
41 Stewart ave., Arlington  
Pinto, A. nm s 115 Wadsworth ave.  
*Piper, F. R.* 1 b  
34 Union, Flushing  
Piperoux, R. P. 3 s Livingston  
Pistner, B. 4 c 189 Rodney, Bklyn.  
Pitts, A. L. 2 l 435 W. 117  
Planer, C. H. ph  
714 Bloomfield, Hoboken  
Planten, J. R. phar  
*Platt, A. H.* 3 t Whittier  
*Platt, R. F.* ph 851 West End ave.  
Platt, J. H., Jr. nm j Hartley  
Plaut, E. p 28 E. 76  
Plotz, H. 4 m 1722 Madison ave.  
*Plumb, A. B.* 3 t Whittier  
*Plumb, H. H.* 3 t Whittier  
Podoloff, D. P. f a Hartley  
*Pollitzer, M.* 2 b 51 E. 60  
Pomeroy, F. K. 3 m 600 W. 115  
*Pond, B. G.* nm t Whittier  
Pond, D. C. f a 140 Claremont ave.  
Ponsford, H. J. f a 633 W. 115  
*Pontz, B.* 4 t 519 W. 121  
*Poore, H. W.* 3 b  
347 Lincoln Rd., Bklyn.  
*Pope, H. M.* p  
305 Ayeriggr ave., Passaic  
*Popper, O.* 1 b 77 E. 89  
Porter, A. M. pl 600 W. 122  
*Porter, D. D.* Sp nm b 116 E. 58  
Porter, E. S. 1 c  
40 Morningside ave. E.  
Porter, F. J. 2 l 15 E. 10  
*Porter, H. B.* 4 t  
195 So. Mountain ave., Montclair



- Porter, R. B. *nm j* 104 W. 68  
 Portlock, K. *de F. 3 t* 416 W. 122  
 Posin, S. E. *phar 32* Morrell, Bklyn.  
 Potter, F. M. *gr t* Metuchen  
 Potter, H. W. *m* 411 Cherry, Elizabeth  
 Potter, M. *2 c* 841 Beck  
 Potts, J. M. *1 c* 370 W. 120  
 Potwine, E. B. *p* 415 W. 118  
 Powell, A. M. *pl* Whittier  
 Powell, A. W. *pl* 915 President, Bklyn.  
 Powell, L. R. *4 b* Brooks  
 Powell, M. A. *pl* 500 W. 122  
 Powell, M. C. *1 t* 424 W. 119  
 Powell, M. L. W. *1 b* 349 West End ave.  
 Powell, M. W. *1 t* 915 President, Bklyn.  
 Powell, R. R. B. *2 l* 633 W. 115  
 Poyntz, J. S. *pl* 1843 Madison ave.  
 Prankard, F. *2 b* Pt. Washington, L. I.  
 Pratt, M. A. *4 t* 26 William, E. Orange  
 Pratt, M. B. *gr t* The Gerard, W. 121  
 Pray, M. I. *3 t* Whittier  
 Preston, A. F. *gr t* 3120 B'way  
 Preston, R. S. *1 t* 67 Argyle ave., Orange  
 Pretat, R. E. *3 c* 619 W. 113  
 Price, J. *4 c* 786 E. 183  
 Price, J. J. *ph* 43 W. 129  
 Prigosen, R. E. *1 b* 1016-40, Bklyn.  
 Prime, W. A., Jr. *nm s* 16 E. 78  
 Prince, E. V. *ph* Brooks  
 Prince, F. M. *4 t* 1060 Dean, Bklyn.  
 Prince, J. D., Jr. *1 c* 102 E. 36  
 Pritchett, K. A. *4 t* 88 Morningside Dr.  
 Prochazka, G. A., Jr. *4 s* 138 W. 13  
 Prochazka, O. *3 t* 138 W. 13  
 Proctor, C. K. *pl* 600 W. 122  
 Prolopapas, C. *phar* 228 W. 37  
 Propper, K. *4 c* 643 Prospect ave.  
 Propper, R. *phar* 643 Prospect ave.  
 Propper, W. *1 s* 643 Prospect ave.  
 Proudfit, F. T. *nm t* 88 Morningside Dr.  
 Proul, R. H. *1 t* Whittier  
 Prouty, T. R. *pl* Hartley  
 Pulleyn, V. M. *2 b* 171 W. 94  
 Pulleyn, J. W. *4 s* 171 W. 94  
 Purdue, O. C. *3 t* 9 N. Harrison, E. Orange  
 Purdy, J. H., Jr. *3 c* 14 W. 122  
 Purvis, S. E. *3 t* Whittier  
 Purvis, W. B. *gr t 29* W. 8, Bayonne  
 Putzel, C. *4 t* 148 W. 94  
 Pyle, E. *2 m* 90 Amderson ave., Yonkers  
 Pyne, W. C. *2 l* 265 W. 88  
 Pyne, W. F. *4 s* 604 W. 114  
 Quackenbush, E. *pl* 500 W. 122  
 Quackenbush, L. R. *phar* 85½ Orient ave., Jersey City  
 Quattlebaum, S. *1 s* 618 W. 113  
 Queal, L. M. *3 t* 509 W. 122  
 Quigg, H. T. *ph* Whittier  
 Quinlan, J. T. *1 c* 221 E. 39  
 Quinn, H. *3 s*  
 Raabin, H. D. *2 s* 129 Utica ave.  
 Rabinowitz, B. *1 b* 142 Manhattan ave., Jersey City  
 Rabinowitz, I. *phar* 167 Eldridge  
 Rade, H. S. *4 s* 70 Morningside Dr.  
 Radebaugh, E. M. *4 t* Whittier  
 Rado, H. R. *1 c* 142 So. Ninth ave., Mt. Vernon  
 Raeder, R. W. *p* 601 W. 127  
 Raff, G. M. *3 b* 1419-58, Bklyn.  
 Rahman, W. *1 s* 1987 Seventh ave.  
 Raines, M. A. *1 c* 763 E. 161  
 Raisch, W. Le R. *fa* 420 W. 118  
 Ralph, M. W. *1 t* 28 Pier, Yonkers  
 Ramsay, A. D. *2 m* 610 W. 178  
 Ramsdell, C. H. *3 l* 342 Convent ave.  
 Rand, E. H. *1 m* 156 W. 57  
 Randall, B. *1 c* Pelham Manor  
 Randall, I. M. *3 t* 180 Claremont ave.  
 Randell, G. M. *2 s* 155 W. 76  
 Randolph, I. F. *2 b* 425 W. 114  
 Randolph, J. A. F. *4 c* Hartley  
 Randolph, M. F. *2 b* 76 So. 10, Newark  
 Rankin, M. E. *4 t* Whittier  
 Rapeer, L. W. *gr t* 416 W. 122  
 Rapelye, E. L. *4 b* Brooks  
 Rapoport, P. *4 t* 1628 Pitkins ave., Bklyn.  
 Rapp, S. K. *2 l* 346 W. 71  
 Rappaport, J. L. *3 c* 522 W. 157  
 Raszewska, G. A. *ph* 2390 Amsterdam ave.  
 Rattner, C. G. *4 m* 1685 Madison ave.  
 Rauscher, A. M. *4 t* 400 W. 118



*Raven, M.* 3 t  
*Ravitch, M.* *ph*  
*Ray, A. G.* *fa* 416 W. 122  
*Ray, L. R.* 1 l  
 230 Ocean Boulevard, Bklyn.  
*Rayens, C. E.* 3 s 604 W. 114  
*Rayle, A. A., Jr.* 1 m Livingston  
*Raymond, S.* *pl* 184 Eldridge  
*Raynolds, R.* 3 m 332 W. 58  
*Raynor, B. E.* 4 t Caldwell  
*Raynor, M. A.* 4 t  
 180 Claremont ave.  
*Read, J. L.* 1 l Livingston  
*Ready, E. P.* *ph*  
 42 Kensington ave., Jersey City  
*Reagle, F. P.* *gr t*  
 149 Chestnut, Montclair  
*Reaser, D. Y.* 1 b  
 15 Arden Pl., Yonkers  
*Reaveley, J.* *gr t* Hartley  
*Recio, F. A.* 1 t 561 W. 143  
*Reed, G. P.* 3 t  
 394 Putnam ave., Bklyn.  
*Reed, K. E.* *nm t*  
 144 Fenimore, Bklyn.  
*Reed, L. P.* 4 c 540 W. 122  
*Reed, M. G.* 3 t  
 88 Morningside Heights  
*Reed, R. W.* 1 t Whittier  
*Reed, W. J.* *fa* Scarsdale  
*Reeder, E. H.* 4 c  
*Rees, F. M.* 1 b 39 Claremont ave.  
*Reese, R. A.* *nm c* 351 W. 56  
*Regan, F. A.* *nm j*  
 70 Berkeley Pl., Bklyn.  
*Reger, R. O.* 3 t 76 First, Clifton  
*Reges, E. R.* 1 b  
 304 Grand ave., L. I. City  
*Reibel, J.* 2 c 117 Bond, Elizabeth  
*Reich, L., Jr.* 2 l 23 E. 44  
*Reichard, S.* *gr t*  
 531 Kosciusko, Bklyn.  
*Reichling, G. A.* *ph*  
 466 Nostrand ave., Bklyn.  
*Reichman, R.* 4 t 2629 Eighth ave.  
*Reid, E. E.* 1 t Edgewater  
*Reid, M.* 3 b  
 44 No. Tenth ave., Mt. Vernon  
*Reid, W. E.* 2 s 217 E. 79  
*Reidy, K. L.* 2 t 169 E. 90  
*Reidy, L. C.* 3 t 169 E. 90  
*Reigart, K. M.* 2 t  
 31 Euclid ave., Caryl, Yonkers  
*Reilly, H. C., Jr.* 1 s  
 154 B'way, Flushing  
*Reilly, H. W.* 3 c 536 W. 114

*Reilly, L.* 4 t  
 1036 Post ave., Port Richmond  
*Reilly, M. M.* 1 t Whittier  
*Reinheimer, C.* 2 b 609 W. 115  
*Reinheimer, E.* 2 b 49 W. 70  
*Reinke, E. A.* 1 b  
 10 Gouverneur Pl.  
*Rejall, A. E.* *ph*  
 54 Tompkins Pl., Bklyn.  
*Remsen, W.* 2 l 612 W. 116  
*Renard, F. A.* 1 s 216 W. 70  
*Renshaw, A.* 3 s 612 W. 116  
*Renton, M.* *pl*  
 207 Schermerhorn, Bklyn.  
*Resnik, J.* 4 t 310 E. 100  
*Reuben, M. H.* 2 c 205 W. 106  
*Reutter, C. E.* 4 c 36 W. 88  
*Reutter, R. H.* 4 c 36 W. 88  
*Reynd, L. S.* 1 l Livingston  
*Revson, R. F.* 4 s  
*Reynolds, B.* 4 b 526 W. 114  
*Reynolds, H.* 2 l 522 W. 123  
*Reynolds, R. J.* 2 m 307 W. 70  
*Rhett, W. M.* 4 m Hartley  
*Rhinehart, A. E.* 2 c 429 W. 24  
*Rhoades, F. M.* 3 b Brooks  
*Rhodes, L. B.* 4 t Whittier  
*Riblet, G. E.* *gr t* Fanwood  
*Rice, D. E.* *gr t* Pratt Inst., Bklyn.  
*Rice, H. S.* 3 c Madison  
*Rice, I. L., Jr.* 2 s Hotel Ansonia  
*Rice, J.* 1 c Ansonia Apts.  
*Rice, W. L.* *pl*  
 55 Pierrepont, Bklyn.  
*Rich, E. M.* 2 b  
 44 S. Eighth ave., Mt. Vernon  
*Rich, G. B.* 1 t Emerson  
*Richard, E. K.* 2 c 12 W. 103  
*Richards, C. R.* 4 c 519 W. 121  
*Richards, J. K.* 1 c  
 1 Main ave., Glendale, L. I.  
*Richards, M. R.* 2 t Whittier  
*Richards, R. W.* 1 c 616 W. 184  
*Richardson, C.* *gr t* 420 W. 118  
*Richardson, G. W., Jr.* 3 s  
 431 W. 117  
*Richardson, H. E.* *nm t*  
 134 Crescent ave., Plainfield  
*Richardson, J. C. R.* 1 t Lowell  
*Richardson, W. C.* *ph*  
 500 E. 18, Bklyn.  
*Richardson, W. E.* 3 l Hartley  
*Richey, M. C.* 4 b Brooks  
*Richter, C.* 4 s 550 W. 114  
*Richter, H.* 4 s 1542 Bryant ave.  
*Ricketts, R. W.* *ph* 600 W. 122

- Riddle, C. C.* 3 t *Whittier*  
*Riegel, G. H.* 2 l 435 W. 117  
*Riegelhuith, K.* ph  
*Riethmiller, O. C.* gr t 600 W. 122  
*Riggs, B. R.* 2 c 434 Riverside Dr.  
*Riggs, R. R.* pl 107 W. 43  
*Righter, L. E.* 4 t Bayonne  
*Riley, E. B.* 4 t  
                     466 Humboldt, Bklyn.  
*Riley, E. M.* 4 t *Whittier*  
*Riley, J. B., Jr.* 1 nm j 419 W. 118  
*Riley, J. L.* 4 t Hartley  
*Riley, M. T.* pl 125 W. 92  
*Rischbieter, T. W.* pl 308 W. 115  
*Risley, W. L.* f a Hartley  
*Ritt, H. L.* ph  
                     253 Liberty ave., Bklyn.  
*Rittenberg, B. H.* 1 b 5 W. 91  
*Ritter, H.* 3 t  
                     857 Lafayette ave., Bklyn.  
*Ritter, I.* phar 288-7  
*Rittman, W. F.* p Hartley  
*Rives, F. B.* 1 l 69 E. 79  
*Rivkin, M. E.* pl 528 W. 152  
*Roantree, W. F.* gr t 407 W. 123  
*Robb, A. T., Jr.* 2 c  
                     77 Pilling, Bklyn.  
*Robbins, C. L.* gr t Livingston  
*Robbins, E. C.* pl Livingston  
*Robbins, S.* 4 t *Whittier*  
*Robertiello, A.* 1 m 108 Varick  
*Roberts, C. A.* 1 s 3671 B'way  
*Roberts, E.* 4 s 470-62, Bklyn.  
*Roberts, E. O.* 3 s 627 W. 115  
*Roberts, F. H.* 3 t 21 Beekman Pl.  
*Roberts, G. H.* 1 c 540 W. 113  
*Roberts, G. H.* f a Livingston  
*Roberts, L.* 2 c 520 W. 150  
*Roberts, M. M.* 4 t Hempstead  
*Roberts, R. B., Jr.* 3 s  
                     736 Riverside Dr.  
*Robertson, I.* 4 t  
                     712 Fourteenth ave., Paterson  
*Robeson, F. L.* p 510 W. 124  
*Robin, E. J.* f a 21 Bay 17, Bklyn.  
*Robinson, A. C.* nm c 3750 B'way  
*Robinson, A. M.* p 70 W. 164  
*Robinson, C. R.* 4 s 419 W. 115  
*Robinson, G. C.* 1 t  
                     88 Morningside Dr.  
*Robinson, E. A.* gr t  
                     50 Orange, Bklyn.  
*Robinson, E. J.* 3 t 511 W. 122  
*Robinson, E. M.* 3 t 514 W. 122  
*Robinson, F. A.* pl 519 W. 121
- Robinson, L. R.* 2 c  
                     79 Carnegie ave., E. Orange  
*Robinson, M.* 4 t 620 W. 182  
*Roche, E. S.* 3 l Livingston  
*Roché, J. A.* 2 s 102 W. 90  
*Roche, J. A.* pl 26 Jones  
*Rochester, M. M.* gr t  
                     845 Lexington ave.  
*Rockman, A. S.* 1 s  
                     199 Columbia, Bklyn.  
*Rockwood, E.* pl *Whittier*  
*Roderick, O. N.* pl Hartley  
*Rodgers, C. I.* 4 t 501 W. 120  
*Rodgers, R. H.* 4 t 519 W. 121  
*Roemermann, A.* 4 s 140 W. 129  
*Roever, F. L.* 3 b  
                     1397 Kenmore Pl., Bklyn.  
*Rogers, E. F.* pl  
*Rogers, H. K.* 2 t *Whittier*  
*Rogers, H. W.* 1 c 240 E. 51  
*Rogers, I. M.* p  
                     48 Highland ave., Yonkers  
*Rogers, M. F.* 3 c 518 W. 150  
*Rogers, R. B.* 1 m 276 W. 89  
*Rogers, R. R.* 3 m 346 W. 57  
*Rogers, R. W.* 3 t 71 N. 7, Paterson  
*Rohrs, G. C.* 3 c 523 W. 141  
*Roland, P. W.* 2 s 3176 Park ave.  
*Rolf, I. P.* 1 b 710 Oakland Pl.  
*Roll, R.* p 201 E. 82  
*Romanoff, M.* 2 c 1673 Madison ave.  
*Romeo, D.* 1 s 752 E. 226  
*Romig, E. F.* pl 600 W. 122  
*Roney, J. L.* 2 c 477 Hudson  
*Ronillot, M. E.* 4 t *Whittier*  
*Roome, S. V.* 2 b Brooks  
*Rooney, J. E.* 4 t *Whittier*  
*Root, E. K.* 3 t 621-11, Bklyn.  
*Root, E. R.* ph  
                     524 Lefferts ave., Richmond Hill  
*Root, M. R.* ph 621-11, Bklyn.  
*Roper, M. R.* 1 t *Whittier*  
*Ros, L.* 3 b 808 West End ave.  
*Ros, M. M.* 1 b 808 West End ave.  
*Rosalsky, M. D.* 1 s  
                     1847 Madison ave.  
*Rose, C. E.* gr t 510 W. 124  
*Rose, H.* 1 b 230 W. 107  
*Roseff, A.* 3 c  
                     11 Park ave., Mt. Vernon  
*Rosenblatt, B. A.* pl  
                     1820 Clinton ave.  
*Rosenblatt, E. G.* 4 b  
                     15 Claremont ave.  
*Rosenblatt, W.* 4 c 1820 Clinton ave.

Rosenblüth, M. B. 3 *m*  
 207 Cathedral P'kway  
*Rosendale, C. gr t* 412 W. 115  
*Rosendorf, J. 4 t* Whittier  
*Rosendorf, M. 3 t* Whittier  
*Rosenfeld, P. L. 4 j* 235 W. 71  
*Rosengarten, I. ph*  
 1059 Lexington ave.  
*Rosenkranz, Ph. i t* 2-4 Attorney  
*Rosenman, J. D. i m* 536 E. 147  
*Rosenman, S. I. 3 c*  
 1860 Seventh ave.  
*Rosenson, W. 3 m* 249 W. 112  
*Rosenstein, H. i b* 545 W. 111  
*Rosenstock, F. M. 2 c*  
 1225 Madison ave.  
*Rosensweig, M. 3 s* 611 W. 141  
*Rosenthal, B. J. pl* 240 W. 137  
*Rosenthal, D. P. 4 t* 419 W. 119  
*Rosenthal, H. M. 2 c*  
 178 Floyd, Bklyn.  
*Rosenthal, J. C. 3 b*  
 21 Claremont ave.  
*Rosenthal, N. 4 m* 1491 Nyse ave.  
*Rosenthal, W. J. 4 c* 237 W. 113  
*Ross, A. 2 t*  
 251 Littleton ave., Newark  
*Ross, F. A. pl* 600 W. 163  
*Ross, G. i b* 852 Union, Bklyn.  
*Ross, M. D. gr t*  
 659 Sanford ave., Flushing  
*Ross, M. G. 2 b* 63 W. 55  
*Ross, V. C. i l*  
 59 Morris, New Brunswick  
*Ross, W. N. pl* 449 W. 123  
*Roth, G. G. 3 b* 545 W. 111  
*Roth, L. L. 4 m* 162 W. 75  
*Roth, S. f a* 102 W. 121  
*Rothenberg, A. E. 3 b* 518 W. 143  
*Rothenberg, B. 2 l* 224 W. 141  
*Rothenberg, D. M. 2 c*  
 266-60, Bklyn.  
*Rothenberg, W. i c*  
 197 Laurel ave., Arlington  
*Rothberg, H. I. i l*  
 The College Club, 44 Stuyvesant  
*Rothermel, E. gr t* 509 W. 121  
*Rothrock, L. E. ph* 600 W. 122  
*Rothschild, J. L. i l*  
 1338 Lincoln Pl., Bklyn.  
*Rothstein, H. Z. i l* 355 E. 4  
*Rothwell, A. C. 3 c* 144 W. 76  
*Rothwell, V. H. 3 l* 144 W. 76  
*Rotkowitz, H. S. 2 s* 182 E. 72  
*Rouillot, M. 4 t* Whittier  
*Rose, C. E. gr t* 510 W. 124

*Rounds, D. M. ph* 415 W. 118  
*Rovillain, E. E. nm c* 158 W. 136  
*Rowe, L. J. 4 t* 155 Audubon ave.  
*Rowland, E. L. i b* 371 W. 120  
*Rowland, F. H. i c* Hartley  
*Roy, M. S. 4 t*  
 Irvington-on-Hudson  
*Rubel, F. R. i l* Livingston  
*Rubenstein, N. nm t* 416 W. 122  
*Rubin, H. S. i c*  
 315 B'way, Bayonne  
*Rubin, S. 3 c* 1542-58, Bklyn.  
*Rubino, G. 3 l* 34 Carmine  
*Ruble, J. J. 2 l* 435 W. 117  
*Ruch, C. J. 3 l* 435 W. 117  
*Rudd, J. S. f a* 400 West End ave.  
*Ruddock, C. M. nm t* 420 W. 121  
*Rudolph, J. B. 2 m*  
 116 Bloomfield, Hoboken  
*Ruebsam, E. M. 3 t* 537 W. 121  
*Ruffier, G. f a* Livingston  
*Rugen, O. N. 4 s* 242 So. 9, Bklyn.  
*Rukeyser, W. A. i s* Hartley  
*Runge, O. E. 3 m*  
 783 Bushwick ave., Bklyn.  
*Runnels, R. 4 t* 408 W. 115  
*Rupp, F. A. i b* 723 Union ave.  
*Ruprecht, W. E. 4 s* 854 W. 181  
*Rushmore, E. i l* Mamaroneck  
*Rushmore, E. M. pl*  
 129 Montague, Bklyn.  
*Russ, P. W. i c* 903 Prospect ave.  
*Russell, H. G. p* 419 W. 119  
*Russell, J. G. i l* 136 W. 82  
*Russell, W. F. gr t* 500 W. 121  
*Rust, E. G. i t* Whittier  
*Rutledge, K. S. 3 t* Closter  
*Ryan, B. M. ph* Hotel Belleclaire  
*Ryan, J. P. 3 l* Hartley  
*Ryder, R. C. 2 l* 195 Amity, Bklyn.  
*Ryerson, M. A. ph*  
 3 No. Washington Sq.  
*Saalberg, H. S. 4 s* 267 W. 89  
*Saba, R. f a*  
 319 Harrison ave., Westfield  
*Sabbatino, P. L. F. i l* 410 E. 13  
*Sachs, A. P. 4 s* 163 E. 107  
*Sachs, A. S. p* 35 W. 112  
*Sachs, S. 4 c* 123 Division  
*Sadtler, C. B. 3 s* 557 W. 124  
*Sahr, S. R. p* 1655 Washington ave.  
*Sagarino, J. F. 4 m* 203 W. 78  
*Sage, E. W. 3 c* 627 W. 115  
*Sage, L. 3 b* Brooks  
*Saidla, L. E. ph* 611 West End ave.

- Sailer, T. H. P. *gr t* 156 Fifth ave.  
 Salamonsky, E. A. *fa* 541 W. 124  
 Salcedo, J. E. *phar* 108 W. 64  
 Saliva, E. *1 t* Whittier  
 Salom, R. *1 b* Brooks  
 Salomon, Mrs. A. L. *pl*  
 258 Riverside Dr.  
 Salomon, A. V. *1 m* 1065 Simpson  
 Salisbury, M. *4 s* 30 W. 96  
 Salvatore, P. J. *1 c* 508 E. 116  
 Salwen, D. *pl* 1526-43, Bklyn.  
 Salwen, E. *2 c* 1526-43, Bklyn.  
 Salzman, A. B. *4 b*  
 5403 Fifteenth ave., Bklyn.  
 Salzman, M. *ph*  
 Sammis, M. M. *1 t* Whittier  
 Samuel, M. *3 c* 20 E. 41, Bayonne  
 Samuels, A. H. *3 c* 301 W. 108  
 Samuels, I. *1 l* 520 W. 123  
 Samuels, M. M. *3 c* 301 W. 108  
 Samuels, S. L. *2 l* 540 W. 143  
 Samuels, S. S. *1 c*  
 1165 Sterling Pl., Bklyn.  
 Sanborn, V. G. *2 c* 201 W. 117  
 Sandercock, H. D. *4 t* Whittier  
 Sanders, G. *1 j* 64 W. 124  
 Sanders, T. M. *2 m* 562 W. 113  
 Sanderson, A. F. *pl* 419 W. 119  
 Sandford, H. L. *4 t*  
 188 Claremont ave.  
 Sandford, R. C. *1 t* Whittier  
 Sandhusen, L. H. *3 c*  
 295 E. 4, Bklyn.  
 Sands, W. H. *2 c*  
 178 Archer ave., Mt. Vernon  
 Sanford, F. D. *pl* 105 E. 22  
 Sangdon, A. C. *1 t* Whittier  
 Sapiro, D. *p* 954 Prospect ave.  
 Sarachek, J. *ph* 233 Monroe  
 Sarafian, K. A. *3 t*  
 110 Lexington ave.  
 Sassulky, I. J. *4 m*  
 312 Hopkinson ave., Bklyn.  
 Saunders, M. H. *3 t*  
 2191 Seventh ave.  
 Savage, J. M. *4 b*  
 9 Lincoln ave., Rutherford  
 Savage, M. D. *pl* 620 W. 115  
 Savage, T. L. *3 t* Whittier  
 Saville, F. E. *4 t* 411 W. 115  
 Sawyer, C. J. *gr t* Livingston  
 Sayers, J. A. *3 t* Whittier  
 Sayles, C. M. *3 t* Whittier  
 Sayre, E. B. *2 b* Brooks  
 Sayre, G. H. *gr t* Closter  
 Sax, C. M. *4 t* 407 Central Pk., W.
- Saxe, W. V. *2 l* 75 E. 81  
 Scales, S. B. *2 s*  
 62 Garrison ave., Jersey City  
 Scandrett, R. B., Jr. *1 l* 408 W. 130  
 Scarborough, P. C. *3 t* Demarest  
 Scardaccione, A. A. *1 c* 29 W. 61  
 Sceva, L. *2 c* 523 W. 135  
 Schachter, M. F. *p* 350 E. 4  
 Schang, F. C., Jr. *2 j* 166 W. 129  
 Schapira, I. *4 t* 334 E. 17  
 Schapira, J. M. *1 s* 170 W. 136  
 Schanger, J. *1 s* 47 W. 99  
 Scharfenstein, G. I. *3 t*  
 1015 So. Boulevard  
 Scharmann, A. C. *1 l*  
 834 Lafayette ave., Bklyn.  
 Schattinger, G. F. *4 s* Hartley  
 Schearrer, R. P. *pl* 600 W. 122  
 Schechter, A. E. *2 b*  
 468 Riverside Dr.  
 Schechter, F. I. *2 l*  
 468 Riverside Dr.  
 Scheel, G. G. *3 l* 531 W. 113  
 Schene, L. H. H. *fa*  
 2981 Perry ave.  
 Schenck, A. P. *fa* Hotel Maiselles  
 Scherpick, E. A. *1 c* Hartley  
 Scheuer, S. H. *4 c*  
 801 West End ave.  
 Schiel, W. E. *1 l*  
 1200 Greene ave., Bklyn.  
 Schiffman, C. D. *1 s*  
 1973 Seventh ave.  
 Schilling, E. I. *4 t* 430 W. 119  
 Schindler, G. J. *1 b*  
 929 West End ave.  
 Schleiff, J. W. *fa* 209 E. 95  
 Schlesinger, L. A. *1 l* 256 W. 97  
 Schleussner, R. C. *1 m* 360 W. 23  
 Schliffer, W. H., Jr. *p*  
 83 So. 2, Bklyn  
 Schloss, J. M. *1 s* 288 W. 92  
 Schlottman, G. *4 c* 627 W. 113  
 Schlueter, E. R. *pl* 600 W. 122  
 Schmacke, F. D. *2 l* Livingston  
 Schmidt, A. M. *3 l*  
 556 McDonough, Bklyn.  
 Schmidt, C. E. *ph* 314 State, Bklyn.  
 Schmidt, E. *2 b*  
 317 High, W. Hoboken  
 Schmidt, F. B. *3 s* 479 W. 152  
 Schmidt, M. T. *2 t* 509 W. 112  
 Schmidt, W. C., Jr. *4 s*  
 1253 St. Nicholas ave.  
 Schmuckler, J. *2 c*  
 1427 Madison ave.



*Schneider, E. T.* 3 t  
1026 Garden, Hoboken  
*Schneider, J. A.* phar 418 W. 44  
*Schneider, L. S.* 4 s 1 W. 117  
*Schoelles, W., Jr.* phar  
*Schoenfeld, A. M.* 4 t 438 E. 83  
*Schoenzeit, E.* 1 c 15 W. 115  
*Schoettle, G. H.* gr t  
2130 Mapes ave.  
*Scholes, B.* 4 t  
574 Bedford ave., Bklyn.  
*Schonberg, M.* pl 600 E. 167  
*Schoonover, K. H.* 2 t Whittier  
*Schorr, M. L.* 3 b 2426 Grand ave.  
*Schrader, F.* 3 s Hartley  
*Schram, C. F. N.* 1 m  
175 High, Bklyn.  
*Schramm, E.* p 515 W. 143  
*Schubert, E.* 4 b 400 W. 124  
*Schumann, C. H., Jr.* 2 s 580 E. 165  
*Schulman, J.* 3 b 1450-49, Bklyn.  
*Schuler, I. C.* phar Brooks  
*Schumann, M. G.* 3 t  
646 St. Anns ave.  
*Schultz, L. C.* 4 s 604 W. 114  
*Schulz, A. W.* 1 c 77 W. 85  
*Schulz, O. G.* 1 s 212 E. 49  
*Schulz, P.* fa 506 W. 143  
*Schurman, G. W.* 4 s 330 E. 152  
*Schutz, M. E.* pl 803 Union, Bklyn.  
*Schuyler, G.* 1 b 509 W. 142  
*Schwanda, W. E.* 1 c Winfield  
*Schwartz, A.* 2 s 2152 Belmont ave.  
*Schwartz, B.* p 1775 Fulton ave.  
*Schwartz, J.* 1 l 46 Pike  
*Schwartz, M. K.* 1 t Whittier  
*Schwartzman, F.* 3 b  
1489 Bryant ave.  
*Schwarz, M. W.* 3 s 471 W. 140  
*Schwarztrauber, E. E.* pl 524 W. 123  
*Schwarzwaelder, F. E.* 2 b Brooks  
*Schwed, I.* 1 l 408 Manhattan ave.  
*Schweis, E. M.* ph 124 W. 109  
*Schweitzer, D. J.* pl 723 E. 5  
*Schweizer, J. A.* 4 s Hartley  
*Schwerd, F. M.* 4 m Prince Bay  
*Scofield, G. H.* pl 600 W. 122  
*Scofield, G. W.* 1 c  
400 Riverside Dr.  
*Scott, A. C.* 3 t Englewood  
*Scott, B. D.* 1 t 1959-84, Bklyn.  
*Scott, C. A.* 4 t Whittier  
*Scott, E. L.* p  
258 Woodworth ave., Yonkers  
*Scott, P. A.* 3 c  
169 Johnson ave., Tottenville

*Scott, R. H.* ph  
481 Bedford ave., Bklyn.  
*Scott, W. H.* pl 600 W. 122  
*Scott, Z. E.* gr t  
1249 Amsterdam ave.  
*Scratchley, G. K.* 1 l 370 W. 120  
*Scudder, F. D.* 3 m  
65 Central ave., Tompkinsville  
*Scudder, E. M.* 1 t 59 W. 96  
*Seals, L. S.* gr t 431 W. 121  
*Seaman, J. A.* 1 m  
96 Greene ave., Bklyn.  
*Sears, M. E.* gr t  
318 No. Seventh ave., Mt. Vernon  
*Seddon, K. V.* 3 t  
247 N. Y. ave., Bklyn.  
*See, C. S.* 1 s Hartley  
*See, M., Jr.* 3 s 429 W. 117  
*Seedorff, H. C.* 2 c  
671 Grand, Bklyn.  
*Seeger, M. L.* 4 t 519 W. 121  
*Seelig, I. A.* fa  
296 Bradford, Bklyn.  
*Seesholtz, A. G.* pl 135 E. 52  
*Segoll, J. C.* phar 286 Seventh ave.  
*Seibel, Mrs. A. J.* nm t 437 W. 124  
*Seibels, R. E.* 3 m 471 Park ave.  
*Seibert, H.* 4 b 2230-83, Bklyn.  
*Seiferling, K. F. J.* A. 1 s  
131 Webster ave.,  
Parkville, Bklyn.  
*Seiff, H. J.* 2 m 164 E. 119  
*Seigler, F. M.* 3 b 349 Grand  
*Seiler, M.* 2 t 160 Claremont ave.  
*Sein, M.* 4 s Hartley  
*Seipp, E.* 1 b 188 Claremont ave.  
*Seipp, H. G.* 3 l 931-84, Bklyn.  
*Seipt, H. A.* ph Hartley  
*Seitz, J. E.* 1 s  
184 Hunterdon, Newark  
*Selden, E. D.* S. 4 t 405 W. 118  
*Seldner, G. E.* 3 b  
10 Baldwin Pl., Yonkers  
*Selig, S.* 2 l 250 Clinton  
*Seligman, C. R.* 3 b  
The Buckingham, Fifth ave. & 50  
*Seligman, I.* ph 100 ave. C  
*Selleck, A.* gr t Whittier  
*Sellew, W. W.* 4 c 78 E. 79  
*Sen, J. T. E.* 3 s Livingston  
*Sengstack, J. L.* 1 c 500 W. 122  
*Sengstaken, J. H.* 3 s 558 W. 113  
*Senner, C.* 2 b 348 W. 123  
*Settlemyer, C. S.* ph 519 W. 121





Silver, M. I c 21 E. 119  
 Silverman, A. 3 l 80 St. Nicholas ave.  
*Silverman, L. B. Sp Nm b 45 E. 75*  
 Silverstein, A. 2 c 320 Convent ave.  
 Silverstein, H. I c 140 W. 121  
 Silverstein, R. P. 2 l 559 W. 141  
*Simar, T. E. 4 t 940 Amsterdam ave.*  
 Simmonds, F. H. 2 s 49 Caroline ave., Yonkers  
 Simmons, E. B. 4 m 53 Washington Sq., So.  
*Simmons, K. C. gr t 194 Joralemon, Bklyn.*  
*Simmons, M. P. 1 b 142 Woodworth ave., Yonkers*  
 Simmons, W. f a 500 W. 122  
 Simon, H. 3 c 233 E. 80  
 Simon, M. phar 189 W. 136  
 Simonds, E. F. gr t 524 W. 123  
 Simonds, F. M., Jr. I c  
*Simonson, A. I t Hollis, L. I.*  
*Simpson, C. A. 3 t Whittier*  
 Simpson, C. G. p 505 W. 122  
*Simpson, H. pl Bretton*  
 Simpson, H. N., gr t 184 Park ave., Rutherford  
 Sinclair, C. G., Jr. 4 s 558 W. 113  
 Sinclair, D. B. 3 m 471 Park ave.  
 Sinclair, R. H. 4 c 558 W. 113  
 Sindelar, C. gr t 1421 Crotona ave.  
 Singer, A. 4 c  
 Singer, C. S. I c 2039 B'way  
*Sinopoli, E. F. 4 t 340 W. 19*  
*Sisson, M. C. 1 b Brooks*  
*Sistrunk, M. M. 3 b Brooks*  
 Skeel, H. R. 4 m 361 Mott ave.  
 Skerritt, H. H. 3 l Livingston  
 Skidmore, L., Jr. 2 l 430 W. 119  
*Skilling, F. J. nm t 416 W. 122*  
*Skilling, F. J. nm t 416 W. 122*  
*Skinker, D. A. 2 b 230 W. 101*  
*Skinner, A. E. 4 t Whittier*  
*Skinner, F. B. 3 t Whittier*  
*Skinner, G. E. 4 t 194 Joralemon, Bklyn.*  
*Skinner, L. gr t Whittier*  
 Skipp, H. J. ph Livingston  
 Slade, E. B. 3 s 600 W. 142  
*Slade, M. G. 3 b 600 W. 142*  
 Slater, A. 4 c 980 Kelly  
 Slayton, M. H. 2 c 22 E. 114  
*Sleffel, K. F. 4 t 195 Claremont ave.*  
 Sloan, L. H. 4 j 510 W. 124

*Sloan, M. J. 3 t 416 W. 122*  
 Slobodien, J. I c 316 W. 111  
 Slosson, P. W. pl 530 W. 123  
 Smail, L. L. p 510 W. 124  
 Smale, W. P., Jr. 3 m 470 W. 146  
 Small, W. L. I l Livingston  
 Small, W. S. f a 501 W. 121  
*Smart, W. V. I t 326 Audubon ave.*  
*Smeaton, E. M. 4 t 111 N. Terr. ave., Mt. Vernon*  
*Smeeton, M. A. 3 t 423 Claremont ave., Bklyn.*  
 Smerling, F. A. ph 3120 B'way  
 Smillie, R. 4 s 440 West End ave.  
 Smith, A. I s Hartley  
 Smith, A. C., Jr. 2 l Hartley  
 Smith, A. DeF. 2 m 541 W. 113  
*Smith, A. W. S. 2 t Whittier*  
 Smith, B. C. pl 150 W. 104  
*Smith, E. A. 3 t 417 W. 120*  
*Smith, E. B. I t 55 So. Mountain ave., Montclair*  
*Smith, E. C. P. ph 611 W. 113*  
*Smith, E. W. 4 t 430 W. 119*  
 Smith, F. D. p 203 W. 102  
*Smith, F. M. ph 418 W. 118*  
 Smith, F. R., Jr. f a 233 Decatur, Bklyn.  
*Smith, F. E. 3 t Whittier*  
 Smith, F. J. 3 t Hartley  
 Smith, G. 4 j 90 Morningside Dr.  
 Smith, G. B. I m 860 Park Pl., Bklyn.  
*Smith, G. H. 2 t Whittier*  
*Smith, G. L. 4 b 175 Claremont ave.*  
 Smith, H. B. I s 103 Jewett ave., Jersey City  
 Smith, H. E. 2 m 35 E. 27  
*Smith, H. E. 3 t Whittier*  
*Smith, H. F. 2 t Whittier*  
 Smith, H. M., Jr. 3 l  
*Smith, H. M. 2 t Whittier*  
*Smith, H. VanA. I b 946 Boulevard, Astoria*  
*Smith, I. 3 t 528 W. 123*  
 Smith, I. D. 4 c 127 W. 69  
*Smith, J. F. 2 t 311 W. 95*  
 Smith, J. L. 4 s 501 W. 120  
*Smith, K. M. ph 88 Morningside Dr.*  
 Smith, K. 2 c Livingston  
 Smith, L. A. 3 l 610 W. 115  
 Smith, L. B. p 97 Vista Pl., Mt. Vernon  
*Smith, L. E. 3 t Whittier*

- Smith, M. *i c* 276 W. 89  
 Smith, M. *4 t* 420 W. 119  
 Smith, M. C. *3 t* 855 Hunt's Point ave.  
 Smith, M. McK. *1 b* 200 Claremont ave.  
 Smith, M. F. *3 t* 393 Prospect ave., Hackensack  
 Smith, M. L. *1 t* 21 W. 122  
 Smith, M. L. *4 t* 552 Boulevard, Westfield  
 Smith, N. C. *1 l* Livingston  
 Smith, P. *1 c* 46 Gold, Portchester  
 Smith, P. H. *3 t* Whittier  
 Smith, R. K. *3 c*  
 Smith, R. M. *nm t* Whittier  
 Smith, R. P. *3 l* Hartley  
 Smith, S. E. *f a* 558 W. 113  
 Smith, S. W. *3 s* 558 W. 113  
 Smith, S. W. *3 c* 32 W. 92  
 Smith, T. A. *3 m* 346 W. 57  
 Smith, Mrs. T. D. *f a* 35 Claremont ave.  
 Smith, T. E., Jr. *1 l*  
 Smith, W. L. *1 l* Baldwin  
 Smith, W. P. *1 s* 334 E. 69  
 Smith, W. S. *p* Livingston  
 Smithers, A. F. *3 c* 425 W. 144  
 Snagg, G. K. *1 b* 43 Sound View, Portchester  
 Snow, E. M. *gr t* Whittier  
 Snow, E. P. *nm c* 33 W. 126  
 Snow, R. *4 t* 49 E. 123  
 Snowden, F. B. *4 t* 510 W. 124  
 Snyder, D. E. *2 l* Livingston  
 Snyder, E. E. *gr t* 538 W. 124  
 Sobin, J. *2 m* 852-4 Ninth ave.  
 Sockman, R. W. *pl* 346 W. 57  
 Soderstrom, G. A. *1 m* 359 W. 55  
 Sohon, F. W. *2 s* 1344 Chisholm  
 Sokohl, J. N. *pl* 130 E. 117  
 Solender, S. S. *3 t* Pleasantville  
 Solomon, E. S. *1 b* 633 Willoughby ave., Bklyn.  
 Solomon, H. *ph* 370 E. 4  
 Solomons, I. A., Jr. *phar* Livingston  
 Soman, P. *1 s* 206 E. 9  
 Somers, C. J. *phar* 894 Montgomery, Jersey City  
 Somerville, R. *2 c* 477 Hudson  
 89 Sherman Pl., Jersey City  
 Sondheim, H. R. *3 b* 301 W. 108  
 Sondheim, S. M. *1 t* 435 Greenwood ave., Richmond Hill  
 Sonn, I. M. *3 t*  
 Soper, F. J. *f a* 180 Claremont ave.  
 Soskin, L. *2 b* 595 Beech Terrace  
 Souder, E. L. *pl* 175 Ninth ave.  
 Spalding, R. A. *4 t* Whittier  
 Spalding, S. C. *2 s* 604 W. 114  
 Spalthoff, W. D. *4 s* 540 W. 113  
 Spanier, S. *pl* 252 Wythe ave., Bklyn.  
 Spare, B. Y. *pl* 600 W. 122  
 Sparks, T. A. *pl* 175 Ninth ave.  
 Spaulding, M. *3 t* Whittier  
 Spear, D. A. *ph* 850 Tinton ave.  
 Speece, H. E. *gr t* 14 So. Tenth ave., Mt. Vernon  
 Speergeon, R. H. *f a* 639 St. John's Pl., Bklyn.  
 Spencer, E. A. B. *3 c* 1124 Tinton ave.  
 Spencer, F. B. *4 s* 825 E. 18  
 Spencer, H. J. *4 m* Hartley  
 Spencer, W. C. *2 j* 370 W. 120  
 Sperling, E. M. *1 c* 215 W. 98  
 Sperling, H. *4 t* 391 Marlborough Rd., Bklyn.  
 Sperling, J. L. *4 b* 601 W. 115  
 Spiero, G. B. *1 c* 16 Manhattan ave.  
 Spilsbury, B. G. *3 t* 23 Park Pl., New Rochelle  
 Spingarn, S. *1 c* 442 Clinton ave., W. Hoboken  
 Spiro, G. C. *1 s* 10 W. 121  
 Spohr, W. *4 t* Whittier  
 Sprague, E. L. *1 t* Whittier  
 Springer, A. *p* 80 Morningside Dr.  
 Springer, I. S. *3 t* 129 E. 10  
 Springer, M. P. *3 l* 932 Kelly  
 Springer, W. M. *2 s* 1308 Bushwick ave., Bklyn.  
 Sproat, H. E. *2 c* 540 W. 113  
 Sprung, S. *ph* 126 W. 118  
 Spooner, M. G. *4 c* Hartley  
 Spooner, R. N. *1 s* 627 W. 115  
 Spiegel, D. R. *3 t* 325 E. 4  
 Squires, L. W. *1 s* 541 W. 124  
 Squires, M. C. *1 t* Whittier  
 St. George, A. von *3 m* 344 Ogden ave., Jersey City  
 St. John, G. E. *1 b* 593 E. 19, Bklyn.  
 Stableford, R. G., Jr. *2 c* 8 Poplar, Bklyn.

Stacy, L. J. *gr t* Livingston  
*Stadler, B. F. 4 t* 701 W. 178  
*Stadie, W. C. 1 m* 270 Willis ave.  
*Stafford, H. G. 2 m*  
 Beauford Pl., New Rochelle  
*Stair, B. W. ph* 580 W. 161  
*Stalwaker, E. M. gr t* 519 W. 121  
*Stam, P., Jr. 2 c* 146 N. 7, Paterson  
*Stamm, C. L. ph*  
 25 N. Seventh ave., Mt. Vernon  
*Stanbrough, D. 2 b* 306 W. 103  
*Stanley, C. A. ph* 600 W. 122  
*Stanley, E. M. 1 t*  
 213-33, Woodcliff-on-Hudson  
*Stanoywich, M. S. pl* 419 W. 118  
*Stanton, E. M. 3 t* Whittier  
*Stanton, W. H. 4 t* 409 E. 31, Bklyn.  
*Staples, C. G. Sp t* 401 W. 118  
*Stark, M. B. p* 537 W. 123  
*Starr, E. G. 4 t* Whittier  
*Starr, S. 3 t* 468 Riverside Dr.  
*Stauffer, V. pl* 600 W. 122  
*Stavely, E. B. p* 509 W. 122  
*Staven, M. P. 1 t* Whittier  
*Staver, W. W. gr t* Englewood  
*Stead, M. F. fa* 612 W. 116  
*Stearns, G. R., Jr. 4 c* 531 W. 113  
*Stearns, W. W. 2 m*  
 23 Coddington, Yonkers  
*Stebbins, C. M. ph*  
 1427 Union, Bklyn.  
*Stebbins, E. T. pl* 431 W. 121  
*Stebbins, H. A. pl* 431 W. 121  
*Stebbins, M. C. 3 b*  
 23 Stevens, Astoria  
*Steckler, E. L. 4 c* 61 W. 88  
*Steel, J. A. 2 m* 106 W. 143  
*Steele, H. L. nm t* 72 W. 87  
*Steele, R. A. gr t* 419 W. 119  
*Steele, S. E. gr t* Whittier  
*Steffen, G. W. 3 s* 551 W. 157  
*Steffen, W. C. A. 4 m*  
 557 Fourth ave., College Point  
*Steinhardt, L. A. 4 c* 23 E. 92  
*Steinhauser, W. 2 m* 156 E. 2  
*Steinholz, R. 1 m* 106 W. 115  
*Steinman, I. phar* 416 E. 81  
*Steinmetz, W. G. pl*  
 1111 Washington ave.,  
 Chester Pk., L. I.  
*Steinthal, J. R. 1 b* 123 E. 91  
*Steffens, J. A. 1 s*  
 694 Fifth ave., Bklyn.  
*Steffensen, K. K. 2 l*  
*Stehlby, E. T. 2 s*  
 153 Clinton ave., New Rochelle

*Stehman, E. L. pl* 600 W. 122  
*Stein, J. D. 3 s* 2169 Fifth ave.  
*Stein, M. 2 c* 226 W. 140  
*Stein, S. D. 1 l* Gould, N. Y. Univ.  
*Steinbruch, H. 1 s*  
 206 Eighth ave., Bklyn.  
*Steinbruch, W. 4 s*  
 206 Eighth ave., Bklyn.  
*Steinemann, R. 3 l*  
 1751 Amsterdam ave.  
*Steiner, E. 1 m* 360 W. 58  
*Steiner, L. 1 c* Hartley  
*Stenquist, J. L. 3 t* Livingston  
*Stevens, G. E. 3 b*  
 33 Van Buren, Bklyn.  
*Stevens, R. 4 m*  
 Hospital for Ruptured & Crippled  
*Stern, A. 3 b* 56 W. 72  
*Stern, C. H. 1 c* 18 E. 93  
*Stern, D. S. 2 c* 115 Division  
*Stern, E. L. 2 b* 63 E. 75  
*Stern, J. M. Sp Nm b* 251 W. 89  
*Stern, L. 1 c*  
 556 Evergreen ave., Bklyn.  
*Stertz, H. 1 t* 153 W. 94  
*Stetter, R. E. 2 t* 510 W. 124  
*Stevens, A. J. 4 t*  
 88 Morningside Dr.  
*Stevens, A. M. 2 m*  
 227a Willoughby ave., Bklyn.  
*Stevens, C. E. 2 s*  
 71 Hillside Pl., Newark  
*Stevens, H. C. 4 s* 616 W. 113  
*Stevens, M. S. ph*  
 147 South, Morristown  
*Stevens, N. C. 2 m* 348 W. 57  
*Stewart, A. 1 t* 116 W. 134  
*Stewart, G. B. ph* 600 W. 122  
*Stewart, H. H. gr t*  
 14 So. Tenth ave., Mt. Vernon  
*Stewart, J. A. 3 s* 467 W. 164  
*Stewart, M. G. 3 t* 125 Riverside Dr.  
*Stewart, M. W. 4 b*  
 1058a Sterling Pl., Bklyn.  
*Stickles, L. 4 m* 957 Broad, Newark  
*Stiebel, M. J. F. 1 t* 251 W. 92  
*Stiefel, W. A. 4 c* So. Orange  
*Stiles, E. 2 b* 250 W. 129  
*Stillman, E. G. 4 m* 830 Park ave.  
*Stillman, W. M. 1 c* Hartley  
*Stimson, D. pl* 159 W. 86  
*Stinson, E. S. 3 t* Whittier  
*Stinson, S. W. 4 t* 414 W. 120  
*Stirn, E. E. 2 b* 957 E. 156



- St. Lawrence, A. J. *1 m* 437 W. 59  
*Stobaugh, C. W. 1 b* Brooks  
*Stobo, J. R. 4 b* 431 Riverside Dr.  
*Stockton, E. M. 1 t*  
     Hudson ave., Highwood  
 Stockton, R. G. *nm l* Livingston  
*Stoddard, A. G. 1 t* 660 E. 166  
*Stoddard, M. L. 3 t* Whittier  
*Stoff, C. G. 1 b*  
     22 Mt. Morris Pk., W.  
 Stokes, V. A. *nm t*  
     27 Bassett, New Haven  
*Stokes, V. M. 2 b* Brooks  
 Stone, C. G., Jr. *2 s* 604 W. 114  
 Stone, E. W. *4 s*  
     1128 Bedford ave., Bklyn.  
*Stone, G. A. 4 t* 3305 B'way  
 Stone, R. H. *2 s* Hartley  
 Stone, S. G. *1 c* 7 W. 10  
*Storer, H. M. 3 t*  
     530 Manhattan ave.  
 Stork, W. L. *2 s*  
     212 Hancock ave., Jersey City  
*Storms, D. E. 1 t* Dobbs Ferry  
*Storrs, M. p* 415 W. 118  
 Stoutemyer, J. H. *gr t* 527 W. 123  
 Stoutenburgh, C. H. *gr t* 110 W. 77  
 Stover, S. *2 c* 536 W. 114  
 Stowell, W. A. *p* 140 Kent, Trenton  
 Strader, W. W. *p*  
     70 Palisade ave., W. Hoboken  
 Stradford, C. F. *1 l* 49 E. 132  
 Straffin, H. A. *3 c*  
     261 & Hudson River  
*Straiton, C. 4 b* 435 W. 123  
*Strang, J. A. 1 s*  
     7 Jones, Jersey City  
 Strang, R. B. *4 s*  
     431 Putnam ave., Bklyn.  
*Strassburger, H. 4 t*  
     503 Central ave., E. Orange  
 Strauss, I. D. *4 c* Hartley  
 Strauss, P. F. *pl* 600 W. 122  
 Strauss, S. G. *4 m* 46 E. 75  
 Strauss, S. W. *1 c* 33 W. 91  
*Streeseaman, A. E. p* Riverdale  
 Street, A. *4 m* 316 W. 58  
 Street, G. M. *4 m* 316 W. 58  
*Street, L. J. pl* 416 W. 118  
 Streeter, H. G. *4 t* Livingston  
 Streusand, I. *ph* 100 ave. C.  
 Strohoefer, F. K. *3 t*  
     23 Bryant Terrace, Rahway  
*Strong, A. C. 3 t* Whittier
- Strong, H. T. 4 t* 503 W. 121  
 Strumwasser, S. M. *1 m* 973 Fox  
 Struthers, R. T. *4 s* 376 E. 136  
*Strutz, R. 4 t* 420 W. 118  
 Stryker, L. C. *3 l* 802 W. 181  
 Stryker, R. F. *gr t* 509 W. 122  
 Stuntz, C. B. *ph* Madison  
*Sturges, S. E. D. 3 b* 204 W. 105  
 Sturtevant, A. H. *p* 526 W. 123  
*Sturtevant, E. ph* 610 W. 113  
*Suckow, E. L. 3 t* Whittier  
 Suffern, A. E. *pl* 501 W. 123  
*Sugerman, S. C. S. 3 t* 136 W. 118  
 Sukoff, A. M. *1 l*  
     1768 Bergen, Bklyn.  
 Sullivan, C. M. *4 t*  
     90 Morningside Dr.  
*Sullivan, C. W. 3 t* 204 W. 108  
 Sullivan, T. F. X. *3 m* 601 W. 182  
 Sulzberger, A. H. *4 c*  
     516 West End ave.  
 Sulzberger, S. U. *1 c* 21 E. 67  
*Summer, H. 3 b*  
     38 Sidney, New Rochelle  
 Sun, H. W. *4 s* Hartley  
*Sunderland, B. 4 t*  
     2698 Creston ave.  
 Sunderland, F. *ph*  
     50 Morningside Dr.  
 Sussman, H. A. *2 m*  
     165 Floyd, Bklyn.  
 Sussman, S. A. *2 c* 41 W. 117  
*Sutherland, M. C. 2 b*  
     881 Honeywell ave.  
 Sutliff, E. H. *3 c* 344-1, Bklyn.  
*Sutton, C. N. 2 t* Day, Bloomfield  
 Suverkrop, E. A., Jr. *4 s* 251 W. 109  
 Suzuki, B. *2 s* 330 E. 57  
 Suzuki, K. *ph* 600 W. 122  
 Swain, D. W. *2 l*  
     33 Sidney Pl., Bklyn.  
*Swainson, A. E. gr t* 519 W. 121  
 Swallow, H. J. *4 s* 605 W. 184  
 Swan, C. C. *2 l* 407 Madison, Bklyn.  
*Swan, E. J. pl* 53 Pineapple, Bklyn.  
 Swayne, E. N. *ph* Whittier  
 Sweeney, J. G. *2 c*  
     8 No. 1, Jamaica, L. I.  
 Sweet, F. H., Jr. *1 j* Hartley  
 Swensen, K. *fa*  
     23rd St. Y. M. C. A.  
 Swift, S. *4 m* 44 W. 44  
 Swords, A. T. *4 c* 1758 Topping ave.



*Sylvester, I. W.* pl  
74 *Ascension, Passaic Pk.*  
*Symonds, E. L.* p  
770 *St. Nicholas ave.*  
*Syska, A. G.* 4 s 100 *W. 94*  
*Szold, E.* 3 t 420 *W. 121*  
  
*Taber, V. H.* gr t 523 *W. 121*  
*Taberini, E.* 1 b  
170 *Academy, Long Island City*  
*Tackmann, H.* 4 s 253 *E. 82*  
*Taft, L. E.* gr t 421 *W. 121*  
*Talada, M. L.* 3 t 3311 *B'way*  
*Talamo, J.* 2 c 464 *Riverside Dr.*  
*Talbot-Jones, A. D.* ph  
512 *Fifth ave.*  
*Talbot, L.* 1 b *Brooks*  
*Talcott, M. H.* gr t 416 *W. 122*  
*Taliaferro, C. B.* 3 t 414 *W. 120*  
*Talischus, O. D.* 1 j 505 *W. 122*  
*Tallman, G. G.* f a 3605 *B'way*  
*Tallman, L.* ph *Whittier*  
*Tallman, L.* gr t *Whittier*  
*Talmage, R. W.* 3 b *Brooks*  
*Tang, Y.* 4 c *Hartley*  
*Tannenbaum, F. S.* 1 l *Livingston*  
*Tanner, A. H.* pl 423 *W. 118*  
*Tanner, E. L.* 3 t 417 *W. 121*  
*Tanzola, J. J.* 2 c 162-9, *Bklyn.*  
*Tanzola, V.* 3 c 162-9, *Bklyn.*  
*Taplin, E. G.* p 374 *Wadsworth ave.*  
*Tarnopoll, L. T.* 1 s  
70 *Chester, Bklyn.*  
*Tarver, R. M.* 2 t *Whittier*  
*Tashof, J. J.* 1 c 145 *E. 38*  
*Taylor, C. E.* gr t 8 *Manhattan ave.*  
*Taylor, D.* gr t 519 *W. 121*  
*Taylor, D. W.* 1 s 13 *W. 102*  
*Taylor, E. C.* Sp m b  
186 *Washington ave., Newark*  
*Taylor, E. C.* 4 t *Whittier*  
*Taylor, E. E.* 3 t 527 *W. 121*  
*Taylor, E. H.* gr t 414 *W. 120*  
*Taylor, E. W.* 1 c 125 *W. 121*  
*Taylor, F.* 4 m 130 *E. 67*  
*Taylor, G.* 4 t 251 *W. 97*  
*Taylor, H. W.* 2 m 156 *E. 38*  
*Taylor, J. L.* 3 t 612 *W. 135*  
*Taylor, J. M.* nm c *Hartley*  
*Taylor, J. T.* ph 501 *W. 122*  
*Taylor, L. B.* 1 t *Whittier*  
*Taylor, M.* 3 l 435 *Riverside Dr.*  
*Taylor, M. A.* 3 t 294 *W. 92*  
*Taylor, M. E.* 3 t 417 *W. 120*  
*Taylor, M. S.* p 212 *W. 120*

*Taylor, T. C.* 2 s  
105 *So. Fifteenth ave., Mt. Vernon*  
*Taylor, W.* phar 161 *W. 140*  
*Taylor, W. D.* 1 c  
*Teden, R. M.* 1 b 364-5, *Bklyn.*  
*Teed, I.* 4 t 414 *W. 118*  
*Tell, J. J.* phar 74 *Columbus*  
*Tenopyr, O.* 2 c  
2915 *Glenwood Rd., Bklyn.*  
*Terhune, I. G.* 1 t  
802 *Montgomery, Jersey City*  
*Ternoff, M.* 1 s 111½ *W. 115*  
*Terrell, E. F.* 4 t  
93 *Cambridge Pl., Bklyn.*  
*Terriberry, M.* 2 b 120 *W. 73*  
*Terrill, E. W.* 1 t  
160 *Seminary ave., Rahway*  
*Terrill, N. B.* pl 135 *E. 52*  
*Tersch, C.* 1 c 364 *W. 30*  
*Terwilliger, A.* phar 115 *W. 68*  
*Tewksbury, E. B.* gr t  
412 *Ninth ave.*  
*Thacher, C. O.* 1 c *Livingston*  
*Thackray, M. J.* ph  
1218 *Bushwick ave., Bklyn.*  
*Thaler, A.* ph 1564-48, *Bklyn.*  
*Thayer, E. R.* f a  
12 *Windsor Terr., Yonkers*  
*Thiakos, D. M.* 3 t 476 *Sixth ave.*  
*Thiesen, J. H.* f a 531 *W. 113*  
*Thiesing, T. H.* 2 l 520 *W. 160*  
*Thomas, A. W.* pl  
*Thomas, C. M.* 1 b *Rye*  
*Thomas, C. P.* 2 m 133 *W. 73*  
*Thomas, D. T.* 4 t *Whittier*  
*Thomas, E. M.* 3 b *Brooks*  
*Thomas, E. W.* ph 225 *W. 86*  
*Thomas, E. W.* 4 t 509 *W. 121*  
*Thomas, J. A., Jr.* 2 c 605 *W. 146*  
*Thomas, M. D.* 2 t 514 *W. 122*  
*Thompson, A. H.* p *Livingston*  
*Thompson, A. S.* pl  
78 *Livingston ave., Yonkers*  
*Thompson, C. G.* phar 552 *W. 163*  
*Thompson, E.* 1 b  
50 *Walker Rd., W. Orange*  
*Thompson, Mrs. E. M.* p 111 *E. 56*  
*Thompson, F. L.* gr t  
63 *Morningside ave.*  
*Thompson, H. B.* gr t 509 *W. 122*  
*Thompson, L. I.* gr t  
180 *Claremont ave.*  
*Thompson, N.* 3 t  
22 *Lewis, Union Course, L. I.*  
*Thompson, R. W.* 1 c *Tuckahoe*

- Thompson, W. G. 3 c  
W. 169, & Haven ave.
- Thompson, W. S. pl 423 W. 118
- Thomson, C. E. 1 l Livingston
- Thomson, M. E. pl 511 W. 113
- Thorburn, G. 4 m 231 W. 69
- Thorne, C. 3 l 77 High, Yonkers
- Thorne, C. G. 1 t 609 W. 127
- Throop, B. C. fa 540 W. 122
- Thurlow, L. K., Jr. 2 l  
152 Gates ave., Bklyn.
- Thurston, F. M. 2 t Whittier
- Thurston, M. W. 1 t 537 W. 123
- Ticcirilli, T. J. 2 s 704 Eagle ave.
- Tice, Mrs. S. C. p 1867 Seventh ave.
- Tichenor, C. L. 1 c  
Cor. Forster & Primrose,  
Mt. Vernon
- Tidyman, W. F. 4 c 520 W. 122
- Tight, M. G. 4 t Whittier
- Tillinghast, C. C. gr t  
42 Jane, Englewood
- Tillman, S. D. 1 t  
179 W. Milton ave., Rahway
- Tilton, C. S. 4 t  
349 Garden ave., Mt. Vernon
- Tilton, H. H. gr t  
48 West Scott Pl., Elizabeth
- Timmons, W. J. pl Hartley
- Tingley, G. 1 t  
St. George's ave., Rahway
- Tisdale, C. L. 3 t Whittier
- Tishman, L. 4 c
- Titlar, R. S. 2 c
- Titus, E. E. ph Whittier
- Titus, H. J. 1 s Hartley
- Titus, N. E. 3 m 127 W. 11
- Toaz, C. E. 3 t  
76 Bruce ave., Yonkers
- Tobin, E. 2 b  
515 Lexington ave., Bklyn.
- Todd, C. N. 4 s 237 W. 107
- Todd, J. R. pl Livingston
- Todd, R. W. 3 l 260 W. 76
- Todd, T. M. gr t  
42 So. Walnut, E. Orange
- Todd, W. H. 1 c 565 W. 113
- Tolischusis, 1 j Hartley
- Tomlinson, D. G. 1 nm l 45 W. 57
- Tompkins, E. M. p  
2015 Bedford ave., Bklyn.
- Tompkins, N. M. pl  
80 Lincoln ave., Poughkeepsie
- Tompkins, V. V. 1 t  
252a Bklyn ave., Bklyn.
- Tong, H. K. pl 554 W. 114
- Tonkonogy, G., Jr. 3 c  
823 Hunts Point ave.
- Tonnelé, T. M. 3 l 258 W. 70
- Tooker, M. D. fa Larchmont
- Toorano, M. 1 c 505 W. 135
- Topalian, H. V. 1 c  
59 Columbia Ter., Weehawken
- Topping, H. D. 400 W. 153
- Torres, A. 4 t 524 W. 123
- Totten, I. 2 b 52 Morningside ave.
- Touart, A. J. 3 l 450 W. 145
- Toussaint, E. R. 2 t 2966 Briggs ave.
- Towl, S. D. 3 t Whittier
- Towner, E. M. fa  
76 Morningside Dr.
- Townley, J. G. 3 b Brooks
- Townsend, A. W. 1 c 522 W. 147
- Townsend, C. P. 1 t Whittier
- Townsend, D. S. 3 l Hartley
- Townsend, E. W. 4 t 155 E. 37
- Townsend, S. M. p W. Hoboken
- Tracey, G. 1 m 332 W. 58
- Track, I. P. 3 b  
70 McDonough, Bklyn.
- Tracy, F. S. 2 s 220 Cathedral P'kway
- Tracy, H. R. 1 t Whittier
- Tracey, J. fa 614 W. 113
- Tracey, W. W. 1 m 333 W. 58
- Track, D. P. 3 b  
76 McDonough, Bklyn.
- Tragitt, H. N. 4 c  
211 S. Ninth ave., Mt. Vernon
- Trainer, C. R. 2 c Hartley
- Traub, A. J. A. ph Elizabeth
- Trausil, O. J. 2 c 416 W. 118
- Treasure, J. F. gr t 522 W. 123
- Trebein, B. E. ph 417 W. 120
- Treleke, G. E. H. 1 b  
710 Degraw, Bklyn.
- Tremper, C. L. 4 t Whittier
- Trench, A. H. 3 t  
110 Holly, Cranford
- Trench, R. ph  
1815 Newkirk ave., Bklyn.
- Trenor, A. D. 4 s 142 E. 62
- Trilling, M. B. 3 t Whittier
- Trimble, H. B. pl 600 W. 122
- Trimble, M. M. 4 t Whittier
- Trimble, R. J. 2 l 420 W. 119
- Trimmer, C. A. 4 t  
88 Morningside Dr.
- Trischett, S. S. 1 c 956 Teller ave.
- Trischka, C. 2 s  
135 So Vine, Richmond Hill
- Trost, H. F. 3 t 246 E. 62

Trottier, T. *ph* 501 W. 122  
 Troutman, R. B. 2 *l* Livingston  
 Trowbridge, K. P. 1 *b* 165 Audubon ave.  
 Troy, A. C. F. 2 *s* 130 Hewes, Bklyn.  
 Truland, H. M. 2 *t* 311 W. 95  
 Trumbower, W. C. 1 *m* 23 Linden, Bayonne  
 Tsai, K. P. *p* Hartley  
 Tsai, M. C. 1 *s* Hartley  
 Tucker, D. S. *pl* Livingston  
 Tucker, L. E. *gr t* 3 No. Washington Sq.  
 Tucker, M. 4 *t* Whittier  
 Tucker, M. L. 3 *t* Whittier  
 Tuer, J. A. *ph* 600 W. 122  
 Tufts, A. B. *nm t* Whittier  
 Tully, M. 3 *b* 185 St. Mark's ave., Bklyn.  
 Turck, C. J. 3 *l* 460 Riverside Dr.  
 Turck, V. 4 *b* 460 Riverside Dr.  
 Turek, H. T. 1 *c* 1379 ave. A.  
 Turets, D. 2 *c* Hartley  
 Turk, E. 3 *l* 404 W. 124  
 Turner, C. *nm l* 21 Claremont ave.  
 Turner, C. C., Jr. 1 *l* 606 W. 113  
 Turner, E. P. 3 *t* Whittier  
 Turner, V. E. *pl* Madison  
 Tuthill, C. S. 4 *t* 80 Hardenbrook ave., Jamaica  
 Tuthill, I. H. *Sp Nm b* 87 Lafayette ave., Bklyn.  
 Tuttle, H. L. 1 *t* 306 Roseville ave., Newark  
 Tuttle, H. N. *pl* 419 W. 115  
 Twaddle, H. W. *gr t* Harrison  
 Twitchell, R. S. *f a* 565 W. 113  
 Twombly, E. B. 2 *l* 430 W. 119  
 Tyler, E. F. *Sp Nm b* 535 W. 112  
 Tyndall, G. V. *gr t* 137 So. Sixth ave., Mt. Vernon  
 Tyndall, H. J. 2 *t* 137 So. Sixth ave., Mt. Vernon  
 Tyndall, R. M. 4 *b* 56 E. 102  
 Tyson, L. *pl* Livingston  
 Ueland, B. 3 *b* 28 McDougall  
 Uhl, M. R. 1 *t* 527 W. 121  
 Ulmer, F. 1 *c* 454 Ft. Washington ave.  
 Ulrich, F. *pl* 600 W. 122  
 Ulyers, D. K. 1 *b* 153 W. 78  
 Umberhauer, L. W. 2 *b* Brooks  
 Underhill, E. M. 3 *c* 703 W. 178  
 Underwood, H. A. *nm t* Whittier

Underwood, I. J. 3 *t* 88 Morningside Dr.  
 Ungarleider, M. E. 3 *s* 545 Marcy ave., Bklyn.  
 Umaceny, L. A. *p* 205 E. 73  
 Unger, J. 3 *b* 73 E. 90  
 Unger, J. J. 2 *m* 40 W. 128  
 Unger, L. J. 4 *m* 40 W. 128  
 Unger, W. 1 *c* 1607 Pitkin ave., Bklyn.  
 Ungerer, H. W. 2 *l* 175 Claremont ave.  
 Untermeyer, E. M. 1 *c* 970 Park ave.  
 Untermeyer, E. M. 4 *c* 667 Madison ave.  
 Unti, I. A. 4 *b* 78 W. 11  
 Updike, G. E. 1 *c* 148 Willow, Bklyn.  
 Upton, A. H. 3 *t* Whittier  
 Upton, E. L. 3 *t* 500 W. 121  
 Upton, H. F. 3 *t* 77 Sedgwick, Bridgeport  
 Upton, L. *Sp Nm b* Brooks  
 Urdang, H. *ph* 529 W. 151  
 Utley, G. H. 4 *t* 537 W. 123  
 Vail, E. 3 *t* 17 W. 124  
 Valensi, A. 4 *c* 235 Second ave.  
 Valentine, H. I. 2 *c* 210 Riverside Dr.  
 Valentine, I. 4 *c* 24 E. 96  
 Valentine, K. S. 3 *c* Hartley  
 Valentine, R. H. 2 *s* 880 St. Nicholas ave.  
 Valentine, S. C. 3 *t* 94 Lawrence  
 Valet, E. M. *ph* 111 W. 127  
 Vallance, W. R. *nm l* 501 W. 123  
 Van Alstyne, W. 3 *c* 112 Riverside Dr.  
 van Buren, M. P. 3 *c* Hartley  
 Vanderbilt, A. T. 3 *l* 14 No. 9, Newark  
 Van deWater, F. F. 1 *j* 403 W. 115  
 Van Dusen, I. C. 1 *b* 43 State, Far Rockaway  
 Van Dusen, L. D. 4 *t* 3718 Willett ave.  
 van Duyn, M. E. 4 *b* 612 W. 135  
 Van Dyck, V. 2 *c* 175 Ninth ave.  
 Van Fossan, E. H. 3 *l* 610 W. 115  
 Van Gaasheek, H. C. 2 *c* 565 W. 113  
 Van Hoesen, C. 3 *t* 541 W. 156  
 Van Horn, H. H. 4 *m* 144 W. 64  
 Vann, W. H. *ph* Livingston  
 Van Name, C. S. *f a* 228 Barclay, Flushing

- Van Ness, C. C. 1 c  
 121 Mt. Pleasant ave., Newark  
 Van Oot, B. H. 4 t Hartley  
 Van Raalte, J. 3 b 10 W. 87  
 Vansant, J. T. gr t 609 W. 127  
 Van Schaick, L. W. gr t Scarsdale  
 Vanstrum, J. I. 4 t Hotel Colonial  
 Van Syckle, G. L. 4 t  
 310 Garden, Hoboken  
 van Tassel, H. S. 3 t Whittier  
 Van Tuyl, F. M. p 119 W. 111  
 Van Vliet, A. 3 t Whittier  
 Van Voast, R. A. 2 l Livingston  
 Van Vort, R. U. 3 t 503 W. 121  
 Van Wert, S. E. ph 316 W. 112  
 Vassar, H. W. f a Hartley  
 Vaughn, E. E. 3 t Whittier  
 Vaughan, J. A. 1 l  
 129 Lexington ave.  
 Veazie, W. B. 3 c 522 W. 123  
 Veeder, L. B. pl Hartley  
 Veness, T. W. 3 l Livingston  
 Vermilye, H. M. 3 m  
 37 Waverly Pl., Orange  
 Ver Nooy, M. gr t  
 600-2, Asbury Park  
 Vessa, M. C. 2 c  
 140 Skillman ave., Bklyn.  
 Vierling, M. 3 t 525 W. 123  
 Vignerón, M. H. ph 526 W. 123  
 Vincent, L. M. 1 m 364 W. 65  
 Vine, E. C. 3 t 600 W. 146  
 Vogel, H. phar 128 Broome  
 Vogel, O. M. 2 s Livingston  
 Vogler, C. A. um l Livingston  
 Vogler, P. C. 2 s 134 Lawrence  
 Vollmer, D. W. 1 s Hartley  
 Volovic, G. O. 3 m 41 Pinehurst ave.  
 von Deesten, A. P. 2 s  
 832 Washington, Hoboken  
 von Doenhoff, D. 4 b  
 88 Morningside Dr.  
 von Glahn, I. H. 4 t 50 W. 129  
 von Heimbürg, F. H. 1 s 515 W. 147  
 von Helmolt, C. A. W., Jr. 3 l  
 The Belnord, 86 & B'way  
 von Hofe, F. H. 1 c 118 E. 87  
 von Hofe, G. D., Jr. 3 c 118 E. 87  
 von Schwanenflügel, H. f a  
 134 E. 72  
 von Sothen, C. E. H. 2 s 616 W. 113  
 von Wedell, H. A. 3 l  
 100 Morningside Dr.  
 Voorhis, S. G. 4 t  
 90 Morningside Dr.  
 Voorhees, T. S. 2 l 429 W. 117  
 Voorhies, J. 3 c  
 2566 Ocean ave., Bklyn.  
 Vorhaus, A. R. 3 b 160 E. 80  
 Voyse, M. 4 b  
 409 Palisade ave., Yonkers  
 Vredenburg, E. H. 2 l 44 W. 77  
 Wack, W. H. 4 c 2175 Eighth ave.  
 Waddington, M. ph  
 1 Lexington ave.  
 Wade, A. 1 t Whittier  
 Wade, C. W. 2 l  
 76 Morningside Dr.  
 Wagner, F. H. 4 s 619 W. 113  
 Wagner, J. A. ph 243 E. 68  
 Wahlquist, H. 3 t  
 225 State, Hackensack  
 Waldenburg, F. t  
 16 Kane Pl., Bklyn.  
 Waldron, A. L. ph 22 E. 47  
 Walker, A. ph 306 B'way, Paterson  
 Walker, B. L. 1 t Whittier  
 Walker, F. J. 1 b Rye  
 Walker, J. F. 4 t 414 Riverside Dr.  
 Walker, L. 1 b 220 W. 129  
 Walker, L. V. 3 t  
 271 Claremont ave., Montclair  
 Walker, M. B. gr t 506 W. 122  
 Walker, M. E. 3 b Brooks  
 Walker, M. N. ph Tarrytown  
 Walker, W. F. 1 s  
 414 Riverside Dr.  
 Wallace, E. N. 1 b 411 W. 114  
 Wallace, O. A. 3 s 7 W. 92  
 Wallach, E. 1 b 95 W. 119  
 Waller, A. P. N. 2 b  
 76 Morningside Dr.  
 Waller, P. M. ph  
 2262 Sedgwick ave.  
 Walsh, H. J. 1 j  
 8502 Ft. Hamilton P'kway, Bklyn.  
 Walsh, H. V. f a  
 602 So. B'way, Yonkers  
 Walsh, J. A. 4 s 461 E. 185  
 Walsh, J. J. gr t 5 E. 131  
 Walsh, J. L. 1 s Hartley  
 Walser, Z. D. pl 600 W. 122  
 Walter, C. J. gr t  
 5126 Chester ave., Philadelphia  
 Walter, M. F. pl 115 W. 57  
 Walther, H. E. 1 b  
 201 No. High, Mt. Vernon  
 Walther, T. H. 3 t  
 1969 Seventh ave.  
 Walton, A. G. pl 600 W. 122  
 Walton, J. B. pl 554 W. 114



Walton, L. S. 3 b  
855 Gates ave., Bklyn.  
Walters, C. J. gr t  
5126 Chester ave., Phila.  
Wang, C. F. p Hartley  
Wang, C. H. p Edgewater  
Wang, K. 2 c Livingston  
Wang, Y. T. p Hartley  
Ward, E. D. 3 c 2688 B'way  
Ward, G. S. 2 l Livingston  
Ward, J. P. 1 l 8 W. 127  
Ward, M. R. 1 j 501 W. 121  
Ward, W. 3 l Livingston  
Ward, W. L. f a  
Waring, L. A. 3 b 514 W. 122  
Warner, D. D. 1 c  
Warner, S. E. 2 t Whittier  
Warren, A. 3 t Whittier  
Warren, S. F. 1 t 517 W. 113  
Warshawsky, P. J. nm l  
105 Ridgewood ave., Newark  
Warwick, V. A. ph  
254 Vanderbilt ave., Bklyn.  
Washburne, G. A. pl 435 W. 119  
Washburn, N. E. 2 b 3133 B'way  
Washburn, R. F. 1 b  
388 Irving ave., Portchester  
Washington, B. 2 s 612 W. 116  
Wasser, C. R. 3 t  
111 Manning ave., Plainfield  
Wasserman, E. P. 2 b 111 W. 88  
Wasserman, R. H. 1 b 231 E. 68  
Waterbury, C. H. 4 c 627 W. 113  
Waterstone, S. S. 1 t  
121 Irvington ave., So. Orange  
Watkins, F. nm t 501 W. 121  
Watkins, Mrs. F. V. 4 t 611 W. 127  
Watkins, H. R. 1 t 419 W. 119  
Watkins, W. K. 2 c 232 W. 127  
Watson, C. M. 4 c  
731 Madison, West New York  
Watson, M. 2 b 419 W. 118  
Watson, M. W. 4 b 258 W. 93  
Watson, T. H., Jr. 2 l 258 W. 93  
Watters, A. C. 4 s 540 W. 158  
Watters, F. A. p 141 W. 4  
Watts, H. F. pl 181 Claremont ave.  
Way, E. M. 3 t 503 W. 121  
Waxman, M. ph  
429 Sutter ave., Bklyn.  
Weathers, B. A., Jr. 1 l 261 W. 73  
Weaver, B. 4 b  
25 Jefferson ave., Bklyn.  
Weaver, E. W. 1 s  
25 Jefferson ave., Bklyn.

Weaver, J. H. 1 c  
25 Jefferson ave., Bklyn.  
Webb, E. W. 4 b  
312 So. Second ave., Mt. Vernon  
Webb, G. R. 3 c Hartley  
Webb, T. H. 1 s 450 Riverside Dr.  
Webber, A. J. 2 b 61 E. 86  
Webber, W. T. 3 l 515 W. 139  
Weber, C. M. 4 t 501 W. 121  
Weber, E. 3 t 401 W. 118  
Weber, S. J. 3 t Whittier  
Webster, G. T. 4 t 509 W. 122  
Webster, J. C. 3 s Livingston  
Webster, J. C. nm j Hartley  
Wechsler, P. 1 t 460 Grand  
Weed, B. E. 3 t 417 W. 120  
Weed, L. A. 2 c 505 W. 113  
Weekes, E. J. ph 600 W. 122  
Weeks, F. L. gr t 421 W. 119  
Weeks, R. F. pl 240 W. 73  
Weeks, W. C. f a 633 W. 115  
Weglein, D. E. gr t  
Wei, W. P. pl 554 W. 114  
Weigley, M. 4 t 610 W. 115  
Weil, F. L. 2 c 57 W. 87  
Weil, M. 1 b 1362 Pacific, Bklyn.  
Weill, M. 4 t 50 E. 89  
Weiner, M. p  
413 New Jersey ave., Bklyn.  
Weiner, S. F. 4 c 627 W. 113  
Weinreb, C. phar 43 W. 112  
Weinstein, A. 3 t 162 E. 4  
Weinstein, A. 4 c  
968 St. Nicholas ave.  
Weinstein, J. D. 1 t  
968 St. Nicholas ave.  
Weinstein, S. 1 b 17 W. 120  
Weintrob, R. gr t 515 W. 125  
Weir, H. R. ph 600 W. 122  
Weis, W. M. 2 l 133 E. 74  
Weiskotten, H. T. 3 c  
96 Hewes, Bklyn.  
Weisman, C. p  
152 Atlantic ave., Bklyn.  
Weiss, A. A. 3 m 588 Park ave.  
Weiss, C. T. 1 b  
Riverside Dr. & 180  
Weiss, H. 4 s  
95 Williams ave., Bklyn.  
Weiss, U. H. pl Riverside Dr. & 180  
Weissenborn, H. C. 1 c  
595 Wythe ave., Bklyn.  
Weitzenkorn, L. M. 1 j Hartley  
Welch, W. 3 s Scarsdale  
Weld, F. M. 1 t Whittier  
Weld, L. A. 4 t Whittier



- Weldon, B. 2 b*  
*Homestead Pk., New Rochelle*  
*Wellenkamp, J. H. 3 c*  
     87 State, Bklyn.  
*Welles, J. B. gr t* 420 W. 121  
*Welles, M. gr t* 420 W. 121  
*Welling, L. H. 2 s* 60 E. 53  
*Wellington, H. G. 4 c* Livingston  
*Wellington, H. W. 4 m* 437 W. 59  
*Wells, C. p* 54 W. 94  
*Wells, C. A. 3 b*  
     406 So. Third ave., Mt. Vernon  
*Wells, M. 1 b* 54 W. 94  
*Wells, M. E. gr t* 437 W. 124  
*Wells, M. H. 1 s*  
     406 So. Third ave., Mt. Vernon  
*Wells, O. I. 3 b*  
     406 So. Third ave., Mt. Vernon  
*Wellwood, B. E. 3 t*  
     2229 Andrews ave.  
*Wendover, C. M. 3 t* Tenafly  
*Wendover, S. H. nm j* Hartley  
*Wendt, E. C. 3 l* 465 West End ave.  
*Wensley, R. L. 1 s*  
     275 Jefferson ave., Bklyn.  
*Wente, E. K. 1 t* Whittier  
*Werner, P. Sp M b* 251 W. 102  
*Werts, M. E. 4 t*  
     275 Union, Jersey City  
*West, J. E. 2 l* Livingston  
*West, L. F. 2 t* 384 Jay, Bklyn.  
*West, S. F. 3 t* 435 W. 119  
*West, W. L. 2 c*  
     849 St. Nicholas ave.  
*Westerfield, W. H. 2 c*  
     12 Lawrence, Yonkers  
*Westermann, J. J., Jr. 1 m* 7 W. 82  
*Westervelt, A. E. 3 t*  
     49 Claremont ave.  
*Westervelt, H. I. 4 t* Arlington  
*Westfall, M. 4 t* 631 W. 142  
*Weston, A. J. ph* E. Orange  
*Weston, F. H. 4 t* 459 W. 123  
*Wetstein, J. fa* 125 E. 82  
*Wettlin, E. L. gr t*  
     239 Walnut, Westfield  
*Weyant, J. A. 2 s* 242 W. 116  
*Weymouth, M. 3 t* 417 W. 120  
*Wezel, E. F. 1 b*  
     58 Vanderveer ave., Woodhaven  
*Whalen, E. A. 4 t* 1219 Taylor ave.  
*Wheat, F. M. gr t* 2565 Bedford ave.  
*Wheeler, C. A. 3 t* Whittier  
*Wheeler, I. 3 l* 565 W. 113  
*Wheeler, I. p* Brooks  
*Wheeler, P. M. 2 c* 421 W. 118  
*Wheeler, R. A. 4 s* 604 W. 114  
*Whelan, F. R. 3 c*  
     153 Stuyvesant ave., Bklyn.  
*Whenman, L. M. pl* 135 E. 52  
*Whyte, M. T. 1 b* Brooks  
*Whicher, G. F. ph* Livingston  
*Whipple, M. E. 3 t*  
     719 Clifton ave., Newark  
*Whitcomb, E. M. 4 t* Whittier  
*White, A. M. nm t* 420 W. 121  
*White, A. K. nm c*  
     160 So. 8, Bklyn.  
*White, C. R. 1 l* Livingston  
*White, E. G. p* 531 W. 124  
*White, E. S. 3 t*  
     124 Berkeley ave., Orange  
*White, E. W. 3 m* Hartley  
*White, G. M. 4 t* Whittier  
*White, L. 3 t* 261 Steuben, Bklyn.  
*White, M. D. S. P., ph* 415 W. 118  
*White, M. R. Sp M b* 18 W. 69  
*White, V. 4 t*  
     382 Main, Hackensack  
*White, W. 4 c* 531 W. 113  
*White, W. F., Jr. p*  
     137 Riverside Dr.  
*White, W. J. gr t* Englewood  
*Whiteford, M. 4 t* 435 W. 119  
*Whitehill, M. E. 3 t*  
     19 Glenwood ave., Jersey City  
*Whitford, R. C. ph*  
     180 Claremont ave.  
*Whitley, H. S. 1 l* Leonia  
*Whitlock, B. McE. 2 l* 535 Park ave.  
*Whitman, A. 3 t*  
     90 Morningside Dr.  
*Whitmore, R. E. 3 j* 501 W. 121  
*Whitney, J. 4 t* 237 E. 104  
*Whitney, L. A. 3 t* Whittier  
*Whitney, L. I. 3 t* 439 W. 123  
*Whitney, M. A. pl* 412 W. 115  
*Whiton, L. C., Jr. p* 308 W. 97  
*Whittaker, Mrs. E. M. 3 t*  
     503 W. 121  
*Whittemore, J. R. 2 l* 627 W. 113  
*Whittingham, E. R. 1 l*  
*Wiberley, E. M. 3 t*  
     2380 Webster ave.  
*Wick, J. M. pl* 29 E. 29  
*Wickender, Y. A. 2 t* Whittier  
*Wickwirc, E. W. p* 500 W. 122  
*Wicks, H. E. 4 t*  
     108 Greene Pl., Bklyn.  
*Widder, J. A. 1 s*  
     141 No. Eighth ave., Mt. Vernon

Wiechmann, W. G. 1 l  
788 Riverside Dr.  
Wiener, J. H. *phar* Rockaway Pk.  
Wiener, J. J. 1 m 1724 Madison ave.  
Wiener, L. J. 1 c 312 W. 93  
Wiener, M. G. 1 c  
62½ Nelson Pl., Newark  
Wiest, E. *pl* 500 W. 122  
Wiggers, A. F. A. 4 m 400 W. 152  
Wiggins, R. L., Jr. *ph* Livingston  
Wilcox, C. L. *p*  
15 Toledo, Elmhurst  
Wilcox, D. A. 4 s 431 W. 117  
Wilcox, R. C. *fa* 323 Riverside Dr.  
Wild, T. F. 4 t 3100 B'way  
Wildrick, C. D. 4 t 424 W. 119  
Wilfert, E. W. 3 l 368 W. 117  
Wilford, H. E. *ph* 107-3, Elmhurst  
Wilford, M. G. *gr t* 505 W. 112  
Wilhite, B. S. 1 t 419 W. 118  
Wilkes, B. C. 3 t  
49 St. Nicholas Terrace  
Wilklow, E. C. 1 b  
373 Manhattan ave.  
Willard, C. B. 2 l 210 Maple, Bklyn.  
Willey, H. 1 s 541 W. 124  
Williams, A. H. 3 t  
811 Ocean ave., Bklyn.  
Williams, B. C. *ph* 415 W. 118  
Williams, C. E. *nm j* 570 W. 182  
Williams, E. A. *p*  
830 West End ave.  
Williams, E. G. 3 b 141 W. 122  
Williams, E. I. 3 s 2788 B'way  
Williams, E. J. *gr t*  
Y. M. C. A., Paterson  
Williams, G. 1 c 141 W. 122  
Williams, H. E. *p* 520 W. 123  
Williams, J. B. *pl* 527 W. 121  
Williams, J. E. 4 m 346 W. 57  
Williams, J. F. 3 m  
80 Morningside Dr.  
Williams, J. W. *pl* Madison  
Williams, K. 2 b 1442-55, Bklyn.  
Williams, L. D. *pl* Madison  
Williams, M. *pl* 135 E. 52  
Williams, M. E. *ph*  
1090 St. Nicholas ave.  
Williams, T. D. 1 l  
1625 Ditmas ave., Bklyn.  
Williamson, L. J. 4 t 540 W. 122  
Williamson, M. *Sp Nm b*  
561 W. 141  
Williamson, M. *ph* 417 W. 118  
Williamson, R. G. 3 s  
Greenwich, Conn.

Willingham, J. C. 2 l 417 W. 117  
Willis, H. S. 1 c 434 Riverside Dr.  
Willo, J. A. 2 l  
Wills, C. E. 1 m 346 W. 57  
Willyoung, M. M. 4 t  
5 N. Fulton ave., Mt. Vernon  
Wilmot, H. E. 3 b 391 Dean, Bklyn.  
Wilmot, M. E. *pl* 391 Dean, Bklyn.  
Wilsen, W. H. 4 c 419 W. 115  
Wilsey, L. C. *gr t*  
727 Highland ave., Newark  
Wilson, A. K. *Sp Nm b* 411 W. 114  
Wilson, E. 3 t 414 W. 120  
Wilson, E. S. *p* Whittier  
Wilson, E. T. 3 t  
60 Walnut, E. Orange  
Wilson, G. C. *gr t* 158 W. 120  
Wilson, G. M. *gr t* 422 W. 115  
Wilson, G. W. *p* 3262 Hull ave.  
Wilson, H. C. 3 l 419 W. 118  
Wilson, H. N. *ph* 414 W. 118  
Wilson, J. 3 c 162 York, Jersey City  
Wilson, J. A. 2 c 536 W. 113  
Wilson, J. P. 4 c  
135 Fourth ave., Newark  
Wilson, L. 4 s 808 West End ave.  
Wilson, L. T. *p* 515 W. 111  
Wilson, M. F. *Sp Nm b* 609 W. 127  
Wilson, P. 2 l Glen Ridge  
Wilson, P. C. *ph* 25 W. 60  
Wilson, R. B. 1 l Hartley  
Wilson, S. E. *ph* 506 W. 122  
Wilson, S. J. 4 c 110 Kent, Bklyn.  
Wilson, N. J. 3 s Bergenfield  
Wilson, W. S. 2 c 200 E. 201  
Winans, H. 1 c  
294 Union, New Rochelle  
Winant, C. D. 2 l 103 E. 71  
Winchester, A. M. *gr t*  
76 Morningside Dr.  
Winfield, K. L. 1 t Whittier  
Winn, B. 4 t 519 W. 121  
Winn, P. B. *p* 1161 Amsterdam ave.  
Winn, R. B. *nm c* Hotel Flanders  
Winslow, A. B. *ph* 519 W. 121  
Winslow, A. R. *Sp nm b* 411 W. 114  
Winslow, T. S. 4 m Wyoming Apts.  
Winston, A. *ph* 401 W. 118  
Winston, H. F. *pl* 401 W. 118  
Wise, A. L. 4 s 28 E. 63  
Wise, H. A. 3 c 790 Riverside Dr.  
Wise, R. L. 1 c  
Hotel Marie Antoinette  
Wise, R. M. 3 b 472 West End ave.  
Wiseltier, J. 4 t 1341 Teller ave.

- Witzell, P. J. 2 s  
1077 Hancock, Bklyn.
- Wohlgenuth, M. W. 2 s 419 W. 115
- Wolcott, M. E. 1 t  
215 Audubon ave.
- Wolf, A. M. 1 t  
1183 Woodycrest ave.
- Wolf, M. p  
324 W. 123
- Wolfe, C. T. 3 l  
Hartley
- Wolfe, I. B. Sp nm b  
Brooks
- Wolfers, F. R. 2 l
- Wolff, H. A. 1 l  
250 W. 82
- Wolff, M. S. 1 c  
880 W. 180
- Wolff, S. p  
84 E. 108
- Wolfin, H. M. 4 s  
Hartley
- Wolfson, D. L. 3 t  
322 W. 87
- Wolfson, G. M. 3 l  
322 W. 87
- Wolinsky, P. 1 l  
224-13, College Point
- Wolk, A. 4 c  
Hartley
- Wollison, I. 3 l 1929 Bergen, Bklyn.
- Womack, M. D. p  
511 W. 112
- Wong, K. M. 4 t  
Livingston
- Wood, A. H. 2 c  
537 W. 123
- Wood, F. A. 1 c 948 Lexington ave.
- Wood, J. F. gr t  
501 W. 123
- Wood, M. 1 t  
Whittier
- Wood, M. M. ph  
505 W. 124
- Wood, N. F. 2 b  
Englewood ave., Englewood
- Wood, R. B. 4 b  
Brooks
- Wood, R. U. 3 s  
429 W. 117
- Woodbury, W. B. ph  
Livingston
- Woodhouse, C. D. 1 l  
Hotel Plaza
- Woodley, H. J. 3 t  
Whittier
- Woodman, E. 4 t  
59 W. 104
- Woodruff, pl  
344 Gregory ave., Passaic
- Woodwell, C. S. 3 s  
522 W. 123
- Woodworth, M. A. 1 t  
150 Stephens ave., Mt. Vernon
- Woodworth, S. E. 4 s  
Livingston
- Woody, I. L. 4 t 88 Morningside Dr.
- Wooley, F. H. 3 l  
121 E. 34
- Wooley, M. R. 4 t  
94 Lawrence
- Woolfolk, R. B. 2 s  
610 W. 113
- Woolworth, A. B. 3 b  
514 W. 122
- Work, J. C. 3 s  
Oyster Bay
- Wormser, F. E. 1 s  
100 W. 91
- Worthington, B. V. T. 3 l 29 E. 77
- Worthington, J. E., Jr. 3 c  
550 W. 114
- Worthington, K. S. ph  
501 W. 120
- Wortmann, C. J. 1 t  
469 Waverly ave., Bklyn.
- Wortmann, J. C. ph  
469 Waverly ave., Bklyn.
- Wray, M. S. 4 t  
Whittier
- Wright, A. M. 2 t  
11 Lincoln ave., Greenwich
- Wright, C. D. 2 t  
105 W. 88
- Wright, E. C. pl  
135 E. 52
- Wright, E. W. phar  
611 Colorado ave., Bridgeport
- Wright, F. S. 2 s  
618 W. 113
- Wright, K. W. ph 2776 Morris ave.
- Wright, M. C. pl  
Pleasantville
- Wright, W. R. p  
Livingston
- Wrigley, M. 4 c  
610 W. 115
- Wulfig, F. W. 2 c  
659 Metropolitan ave., Bklyn.
- Wunderlich, E. P. ph  
146 North B'way, Tarrytown
- Wurm, C. 2 c  
606 E. 164
- Wurster, W. F. 3 s 327 Lenox ave.
- Wyckoff, H. E. pl  
523 W. 121
- Wyckoff, M. 2 b  
43 Lincoln, Glen Ridge
- Wye, T. S. 4 s  
Hartley
- Wye, T. S. 4 c  
53 Bayard
- Wyman, G. H. gr t  
Hartley
- Yablick, M. 3 s  
472 Bergen, Newark
- Yackey, L. M. 4 t  
Whittier
- Yamaguchi, K. nm c  
419 W. 118
- Yamakawa, Y. pl  
420 W. 121
- Yanagisawa, T. p  
440 Riverside Dr.
- Yang, S. C. 1 c  
403 W. 115
- Yantis, M. C. 4 b  
435 W. 119
- Yates, J. A. nm l  
425 W. 114
- Yoakley, I. 4 t  
3120 B'way
- Yonge, M. J. 1 t  
Whittier
- Young, A. St. C. 1 t  
Junior League House,  
78 & East River
- Young, E. V. ph 1206 Franklin ave.
- Young, J. F. 4 m  
142 E. 27
- Young, J. J. 2 m 149 Bedford ave.
- Young, J. W. 2 l  
Hartley
- Young, M. C. Sp Nm b 317 W. 89
- Young, M. McK. 4 t  
Whittier
- Young, R. H. 3 m  
217 W. 134
- Young, R. W., Jr. 2 l  
Hartley
- Younger, D. H. 2 l  
139 So. Orange ave., Newark
- Youngs, H. C. 1 b  
600 W. 115
- Youngs, J. E. 3 t  
90 Morningside Dr.

Yunck, B. 4 *t*  
422 Meeker, So. Orange

Zagat, H. 1 *b* 184 Claremont ave.

Zahn, G. W. 2 *c* 633 W. 115

Zamkin, H. O. 1 *m* 123 E. 101

Zavidovich, M. M. 2 *s*

294 Georgia ave., Bklyn.

Zee, K. T. 1 *c* 88 Morningside Dr.

Zeitlin, R. *ph* 2101 Eighth ave.

Zelsche, R. G. *f a* 658 E. 175

Zeman, F. D. 3 *c*

17 Spencer Pl., Bklyn.

Zenker, O. *ph* 351 E. 84

Zent, E. G. 1 *c* 175 W. 73

Zentgraf, M. D. *nm Sp b*

Zeroff, M. H. *phar* Madison ave.

Stapleton, S. I.

Zeydel, E. H. 2 *c*

416 Westminster Rd., Bklyn.

Zia, Z. C. 3 *s* Hartley

Zietlow, C. F. *nm c* 611 W. 156

Zilbersher, S. I. 3 *s* 2022 Lex ave.

Zimmer, S. H. 3 *s* 601 E. 170

Zimmer, D. B. 1 *c* 111 W. 120

Zimmerman, T. A. *phar*

Zins, M. 1 *s* 656 Third ave.

Zipp, C. S. 3 *l* Hartley

Zion, L. 2 *m* 830 Kelly

Zoellner, H. W. 1 *c* Hartley

Zollecoffer, J. P. T. *nm l* Livingston

Zoller, H. P. *f a* 556 W. 150

Zolotkoff, J. 3 *t*

1956 Crotona P'kway

Zorn, F. 1 *l* 170 W. 136

Zukerman, D. 4 *c*

1569 Eastern P'kway, Bklyn.

Zuckerman, S. 2 *s*

279 Division ave., Bklyn.

Zuege, H. W. 1 *s*

958 Steinway ave., L. I. City

Zvirin, E. 3 *c* Larchmont

## SUMMARY

### OFFICERS

Professors (not including 4 administrative officers of professorial rank) .....	178
Associate Professors .....	36
Assistant Professors .....	85
Clinical Professors .....	16
Associates .....	46
Instructors .....	161
Curators .....	2
Lecturers and other Special Officers of Instruction.....	24
Assistants .....	70
Clinical Assistants .....	84
<hr/>	
UNIVERSITY OFFICERS OF INSTRUCTION .....	702
OTHER INSTRUCTORS IN TEACHERS COLLEGE.....	102
OTHER INSTRUCTORS IN COLLEGE OF PHARMACY.....	5
	<hr/> 809
UNIVERSITY OFFICERS OF ADMINISTRATION.....	39
OTHER OFFICERS OF ADMINISTRATION, TEACHERS COLLEGE AND COLLEGE OF PHARMACY.....	4
	<hr/> 43
EMERITUS OFFICERS .....	17
	<hr/>
TOTAL .....	869
HORACE MANN SCHOOL and SPEYER SCHOOL ( <i>not included above</i> ) .....	85

### STUDENTS

COLUMBIA COLLEGE:	
Fourth-year class .....	172
Third-year " .....	147
Second-year " .....	205
First-year " .....	270
Non-matriculated .....	26
	<hr/> 820
Carried forward .....	820



Brought forward .....	820
The School of LAW:	
Third-year class .....	136
Second-year " .....	156
First-year " .....	132
Non-matriculated .....	35
	— 459
The School of MEDICINE:	
Fourth-year class .....	106
Third-year " .....	78
Second-year " .....	53
First-year " .....	84
Non-matriculated .....	15
	— 336
The Schools of MINES, ENGINEERING, AND CHEMISTRY:	
Fourth-year class .....	158
Third-year " .....	143
Second-year " .....	150
First-year " .....	169
Non-matriculated .....	14
	— 634
FINE ARTS:	
Architecture .....	129
Music .....	20
	— 149
The Graduate Faculties of POLITICAL SCIENCE, PHILOSOPHY, and PURE SCIENCE .....	1410
	—
TOTAL .....	3808
BARNARD COLLEGE .....	590
TEACHERS COLLEGE	
School of Education .....	1379
School of Practical Arts .....	227
COLLEGE OF PHARMACY	
(Students in University Course only included in Directory)	420
	—
TOTAL .....	6424
Deduct Double Registration .....	334
	—
NET TOTAL OF RESIDENT STUDENTS.....	6090
Summer Session Students, 1912 .....	3602
Deduct Double Registration .....	748
	— 2854
	—
GRAND TOTAL OF RESIDENT STUDENTS .....	8944
Students in Extension Courses (excluding duplicates)	1497
Students in Special Classes at Teachers' College....	1218



















